119 Cemetery Rd.,

Slow Traffic Net: Tuesday & Thursday 9pm EDT on 3.682 Century Award Net: Sunday 2000Z on 14.058MHz

Sec: E. (Geo) Longden. G3ZQS.

Slow Ragchewing Group: W8BI 8pm EDT Wed on 3.720
Saturday QSO Groups: 14.058 at 2000Z and 7.058 at 2300Z

Lancs. BB3 2LZ. England. 0254 703948

Please keep watch on the Novice Bands and freqencies ending in .x58 (.058, .158, .258 etc)

DARWEN,

<u>North American</u> <u>Memo</u>

Nancy Kott WZ8C Post Office Box 47 Hadley MI 48440





WZ8C reserves the right to edit submissions for space, clarity and topic suitability. Comments not attributed to another are written by WZ8C. Articles from The Keynote may be reprinted if credit is given to the original author.

Our TENTH anniversary of the Founding of FISTS by Geo G3ZQS is this September. The DX Straight Key Week will be taking place the first week of September, as it always does. While it is a popular event, not everyone enjoys using a straight key. I would like to see something in which all FISTS can participate. We should do something special. A Special Event Weekend would be fun and something everyone can do.

Starting September 9 thru Sept 12, your shack can become a FISTS Special Event Station by calling (or answering) CQ FISTS SE. Every station you work will be eligible to receive a Special Anniversary Special Event Certificate for helping us celebrate.

The stations you work will QSL with an SASE to your QTH. It is your responsibility as an SE (Special Event) station to check your logs, verify the contacts, then send me a note letting me know how many Anniversary Certificates you'll need to return the SASE's you've received. I'll send you the appropriate number of Certificates and you can complete them with the QSO info.

We'll award a plaque to the FISTS member who works the most stations that weekend and other awards as participation warrants. I realize that some FISTS may be a bit apprehensive about being a SE station, so I'll have a sample QSO exchange and more details in

the next KeyNote. I'll submit info about our SE to the major magazines to help publicize it.

If anyone would like to submit a design for the Anniversary Celebration Special Event certificate, in one color, pse go for it and send it to me.

Many, many thanks for all your cards, calls, letters and Emails regarding my debate with W5YI! I'd love to print them all here in the KeyNote, but it might go to my head to see them in print all in one place, hi.

I really appreciate your support. As you know CW, Ham Radio and FISTS are very important to me and your feedback lets me know I'm on the right track.

The Pro-CW requirement side of the Debate sure has been downplayed, particularly by CQ magazine. They ran a two and a half page article by W5YI under the heading of Washington Happenings, giving his verbatim transcript plus a whole lot more. All that was mentioned about the Pro-CW side was that "the debate was against WZ8C of F.I.S.T.S." They never contacted me to offer equal time, which I think is very unfair. W5YI even got FISTS name wrong, calling us F.I.S.T.S.!

After hearing about this article, I faxed them the transcript of my opening remarks, without the embellishment they allowed W5YI, but I never heard anything from them. I just wanted to let you know that I DID try to get them to be fair and print the other side of the story, but they chose to ignore me and all the other FISTS who told me they wrote to CQ in protest.

I hope you had a FB Field Day! The FISTS of MI Field Day was great. The weather couldn't have been better; low 80's and a gentle breeze. All the tents stayed up, the antennas worked great - no interference between rigs, batteries lasted all weekend. Twelve people show up over the course of the weekend. Everyone who wanted to operate was able to and we had enough people logging, too. We even had a crew there for setup and tear-down. We had a delicious Saturday evening potluck barbecue. Everything was practically perfect I don't know how we're going to top it next year! Well.... Maybe next year I won't burn the bratwurst for Sunday's lunch...but they were still tasty!

There's a membership list enclosed in this month's KeyNote, making it a record 40 pages! Whew! Hope you enjoy it......

HOW DO I ...?

... ORDER CLUB SUPPLIES? Irene WO8E 25206 Hayes, Roseville MI 48066 has Gold logo stickers, 200 for \$5

Blue enamel/gold metal clasp-back logo pins \$3.50; Cloth logo patches 3" octagon shaped \$1.50 Rubber stamps with the FISTS logo for use with an ink pad (not included) for \$5. "I Support KNOW Code" buttons for .75 Pse make checks out to FISTS. These prices DO include first class postage.

Cobalt blue w/gold FISTS logo coffee mugs are available from Joe Falcone 9614 Arden Ave, Livonia MI 48150 for \$4.50 plus \$3 postage - make checks payable to Joe Falcone.

...GET AN UP-TO-DATE MEMBERLIST?

The list is printed in the KeyNote twice a year and is also on the Web page. A printed updated list may be obtained by sending \$1 to Ed N7CFA 2628 Lilac Street, Longview WA 98632.

... Get on the FISTS On-Line Email List?

Send your Email address to blafont@tir.com

... GET/SEND FISTS QSL CARDS Via BURO? Brian W8BL 3050 Rochester Rd, Dryden MI 48428 handles the Buro. Pse sort your outgoing DX and NA cards alphabetically by call area. To get cards you may have waiting, send loose stamps to Brian and he'll use them to send your cards to you as they come in.

...RENEW MY KEYNOTE SUBSCRIPTION? Send a check/money order made out to FISTS for \$15/year to Nancy WZ8C POBox 47 Hadley MI 48440

SPONSOR A DX FISTS?...

DX FISTS have a separate block of numbers; their Keynote is mailed from Geo G3ZQS. Send their info to Geo 119 Cemetery Rd. Darwen Lancs, BB3 2LZ; he'll send them a DX application. ... HAVE APPS/SAMPLES SENT TO FRIENDS? Send their address, SASE or loose stamp to hold down expenses, to Joe K5HLR 29 Melrose Dr. Marrero LA, 70072. Pse enclose \$1 if sample Keynote is requested.

...APPLY FOR THE CENTURY or WAS AWARD? Send a list of contacts (call, FISTS #, qth, date, time, band) and power used to Lee N9NVV 4530 N 15th Street Terre Haute IN 47805 Don't submit OSLS

... VOLUNTEER FOR or GET A CODE BUDDY?

Ed WA3WSJ 775 Moonflower Reading PA 19606

...SHARE COMPUTER SOFTWARE?

Joe WZ8U 5428 Bolander Grand Blanc MI 48439

... GET MY PHOTO ON THE PHOTOPAGES? Send a snapshot of yourself to Ken W8ROG 25206 Hayes Roseville MI 48066.

...GET A COPY OF FISTS PRESENTATION

to give at my local club meeting?

Contact Randy K8EZ, 2674 Gemini Dr, Lk Orion MI 48360 email - k8ez@concentric.net

...FIND THE WEB PAGE?

http://n9nvv.grp.com/~fists

...SUGGEST IDEAS FOR THE WEB PAGE?

Contact Bill KK4KF at bjmyers@arc.net

....ORDER FISTS CLUB QSL CARDS?

send SASE to WX9X at 354 West St, Valparaiso IN 46383

...ORDER A FISTS CLUB ID BADGE?

Our club badge is dark blue, with FISTS logo in gold and your name, callsign and "Int'l Morse Preservation Society" in white. They are \$6.95 postpaid from The Signman of Baton Rouge 879 Castle Kirk Dr, Baton Rouge LA 70808; email nv5a@aol.com ... IMPROVE MY CODE SPEED and MEET LOTS OF NEW FRIENDS? Join FISTS! Get involved in the nets and activities!

CODE BUDDY APPLICATION

lo you need help
als:
p us hook you up
w.
od WS

ISSUE 7 1997

I flower Reading PA 19606

WEI	COME	TO THE	NEW	FISTS

3490 NIGDH Ed in Webster MA

3489 N5OB O.H. in Midfield TX (WA5SNL)

3488 K0PW Paul in Burnsville MN (K5HLR)

3487 KO4OR Bobi in Pensacola FL (KS4IE)

3486 W8CCN Tom in Fairmont WV (W4DXB)

3485 N0TBM Brian in Thornton CO (N5VC)

3484 N4KTW Charlie in Tuckerton NJ (WB2FXK)

3483 KB2NIF Paul in Somerville NJ (W8VQV)

3482 N0LAG George in Muscatine IA

3481 VA3JEG Jim Woodbridge ONT (N3XJQ/N4ZMP)

3480 KB9MUU Al in Quincy IL (AA9LS)

3479 KB2XX Paul in Charlottsesville VA

3478 KB7AQD Robert in Phoenix AZ (AE2L, NY2V)

3477 W3CL Carl in Washington DC (W4HU)

3476 KD6VMY Ernie in Escondido CA (K2SB)

3475 KA3UXU Larry in Leola PA

3474 KC5HLO Bob in Alice TX (KD5KP)

3473 AA0VF Bob in Bailey CO (AI9L)

3472 KE6PWJ Bill in Los Gatos CA (K4HXM)

3471 K6CB Chris in BishopCA(W6KN)

3470 W8DEA Don in North Canton OH (AE4AI)

3469 KK5LM Wes in Raymond MS (K5HLR)

3468 AC6YD Patrick in Rohnert Park CA (KC5GXC)

3467 N7TX Steve in Mesa AZ (K7GT)

3466 W10LK Ralph in Lexington MA (AA1RX)

3465 WB0CFF Carl in Belle Plaine MN (AF9H)

3464 W3DP Dick in Camp Hill PA (WS0I)

3463 KF6GCZ Hap in Boulder Creek CA (KF6GUH)

3462 AC6WQ Rob in San Dimas CA (K5HLR)

3461 KB8MMA Yvonne in Harrison MI (N8HG)

3460 AA9UO Jim in Dekalb IL (N9RFR)

3459 WB8DWD Jim in Greenville OH

3458 K4NR Tom in Gunter AFB AL (K3LT)

3457 N7DOH Paul in Newcastle WA (Web page)

3456 WB2ART Ken in Sayville NY (WA6PWG)

3455 KD4LRP Rob in Falls Church VA (KE4HZM)

3454 W8JMA John in Waterford MI

3453 N9SQT Allan in Rolling Meadows IL

3452 NL7C Jim in Anchorage AK (KL7GN)

3451 K6PZE Dick in San Diego CA

3450 N4UY Jake in Vienna VA (AC5JH)

3449 KK5WH Doug in Choudrant LA (AI9L)

3448 XE1ABE Hugo in Morelia Mexico (AC5JH)

3447 KF4DPS Jim in Gadsden AL

3446 AA1RR Paul in Malden MA

3445 KC5VGQ Stephanie in Richardson TX (AD5X)

3444 KB9LYM Jackie in Madison WI

3443 NN6C Mike in Poway CA (KF4JRO)

3442 KRIB Bob in Norridgewock ME

3441 K0HHB Tom in St Louis MO (K0CNS)

3440 KA8FCC Don in Mount Vernon OH (AA8WP)

3439 KC5WUS Jim in Amarillo TX (KF6GUH)

3438 W1GU Michelle in Monmouth ME

3437 W1KX Bill in Monmouth ME

3436 W6AR Dewey in Palmdale CA (W6DDB)

3435 N4EC Ed in Gainesville FL (KS4XN)

3434 K4HFJ Pat in Gainsville FL (KS4XN)

3433 KE4ITN Tom in Cleveland AL (N4ZMP)

3432 K2JY Steve LkRonkonkomaNY(N2XHY/KG2LL)

3431 AC5JU Jim in Downsville LA

3430 W4PBL Frank in Lakeland FL (NB2T)

3429 KQ6EH Paul in Downey CA (N6EV)

3428 KC5RDC Charlie in Port Barre LA (AC5JH)

3427 KI0HQ Ed in Lampe MO (WB2FXK)

3426 K7ZYV Carl in Biloxi MS

3425 KB3AWR Forrest in Trafford PA (N2SLB)

3424 N3VVE Maggie in Trafford PA (N2SLB)

3423 KB4HAH Gene in Pensacola FL (N4ZMP)

3422 K1CIK Karl in Reading MI (K1SZK)

3421 W8DAN Dan in Xenia OH (WA0FAX)

3420 WL7WH Bob in Anchorage AK (W7UDZ)

3419 KC5NGS Jack in McAllen TX (KE4JSL)

3418 KB7TTY Bob in Oregon City OR (N7CFA)

3417 W9CBT Dick in Glenview IL (W4HZD)

3416 WR4T Theodore in Cincinnati OH

3415 W2RCM Rich in Wenonah NJ (K5HLR)

3414 NN3L Robin in Reading PA (WA3WSJ)

3413 KZ5W Brad, Cypress TX(#'s 3109,2079, 2481, 2632)

3412 W9UW Ron in Wis Rapids WI (WS0L)

3411 N5JEF Mac in Corpus Christ TX

3410 N7BYP Pete in Seattle WA (K5HLR)

3409 W2RWH Carl in St George UT (W8EQA)

3408 K9IH Warren in West Chicago IL (W7UDZ)

3407 N4ROA Dan in Gate City VA (K3WWP)

3406 KB9MZK Dave in Wheatfield IN (AF9H)

3405 KB2TCR Rick, Hampton Bays, NY (KF4DDE/K3DC)

3404 NM8Y Tim in Circleville OH (K3CJQ)

3403 N0FDX Donald in Naples FL (N1VWD)

3402 N3HAM Jerry in Philly PA (N2FX/G3ZQS)

3401 AA8PJ Jeff in Dover OH (VE1ZAC)

3400 KC8HRO FISTS CW Club of Michigan

3399 W4NPL Paul in Huntsville TN (VE3MIQ)

3398 KC7UXA Steve in Las Vegas NV (WA2BQI)

3397 N4ZH Terry in Vienna VA (K4WK)

3396 WA3NSR Bob in White Hall MD (WB2FXK)

3395 N6DK Dick in Sacramento CA (KE6TEN)

3394 W9BYH Bill in Tacoma WA (KB0LLZ)

3393 KM5EJ JD in Houston TX (N4ZMP)

3392 W8YNY Willie in Crystal Falls MI (N3PM)

3391 KC8BOJ Ed in Garfield Hts OH (KG8QO)

3390 KC8HHH Ben (KG8DA)

3389 K9HT Dave in West Lafayette IN

3388 KB9GKX RJ in Indianapolis (K8FC/N9NVV)

3387 KE4QLH David in Atlanta GA (KF4KUO)

3386 N8TW Ted in Miamisburg OH

3385 KB0GGQ Al in Mpls MN (KG8WF)

3384 AA8WP Larry in Mount Vernon OH

3383 K3VE Steve in Greensburg PA

3382 N1YXU Laurie in Leominster MA (KE1DY)

3381 W4ZYT Don in Virginia Beach VA (KC4VZK)

3380 WD0HBW Dick in Little Canada MN (AI9L)

3379 VE3UKU Tom in Ontario Canada (VE3FMC)

3378 KC7ORH Jim in Port Angeles WA (KF6GUH)

3377 K4MR Brad in Lake City FL (AI9L)

3376 AA9SD Chuck in Redwood Falls MN (N4ZMP)

3375 K8JWR Dan in Lambertville MI (N8NLE)

3374 K1HLG Bill in Bangor ME (AI9L)

3373 N7XN Dale in Tempe AZ

3372 W60WP Bart in Paradise CA (N6RNP)

3371 KE6CTI Matt in Lake Los Angeles CA (W6UJX)

3370 K0CNS Rick in O'Fallon MO (W8EQA)

3369 KC3Y Buck in Riviera Beach MD (N3NNH)

3368 N3DU Tim in Sacramento CA (KE6TEN)

3367 W8CK Craig in Grand Rapids MI

3366 KD6POC Adam in Santa Rosa CA (K5HLR)

3365 NC0A Chuck in Canon City CO (W0RE)

3364 KE60IO Dorthea in Garden Grove CA

3363 KA2SJG Jack in Boonville NY (N2ZHF)

3362 N7KO Rick in Glendale AZ

3361 WIUBG Bob in Dover NH (KB1FK)

3360 WC6C Chuck in Pittsburg PA

3359 KF4MKB Bill in Stuart FL (N4ZMP)

3358 W9VZR Chuck in Whitefish Bay WI

3357 KC6IJE "TM" in Palo Alto CA (AD6AG)

3356 K5NC Waldo in Houston TX

3355 WA8UCS Chuck in Metamora MI (WZ8C)

3354 W7GO Tony in Las Vegas NV

3353 KF4PYE Ed in St Cloud FL (AE4IX)

3352 KC7SRL Kurt in Cave Junction OR (WA7MMG)

3351 W4GEK Chet in Oak Ridge TN (W4HZD)

Callsign changes

Bill #2016 AA2YH is now N2WF Rick #2662 KB0RMY is now K0QR Ray #3164 WB9PIL is now KG9KK Roland #2980 KB2WIK is now KG2LO Vic #2311 AC5GP is now N5VC Jerry #3291 N2XHY is now K6ZLL Geo #2667 KO4YV is now W4GEO Marc #3160 AA3JQ is now KE6P Tom #2627 AC4XT is now N3XT Carol #2081 AB2AC is now K2VS Allen #2635 WB5BIR is now N5XZ

Tom #2360 KC8DGU is now KI8CZ

PHOTOPAGE WINNER THIS MONTH

The winner of the June Photopage drawing is: The picture on page 12, number 23, Bill **KB9IWH**. You, too, can be a lucky winner of 200 FISTS

stickers and a FISTS patch. All you have to do is send in your photo for our Photopages! Winners are drawn by random. Everyone who has sent in a photo has an equal chance to win each month, but you can only win once. Send in your photo today! Ideal photo size is similar to the one of me on page 1 of this issue.

SILENT KEY

It is my very sad duty to inform the FISTS club that yet another fellow CW enthusiast has passed on. Charles Allen, AAOIO, FISTS number 1590 succumbed to a short battle with liver cancer on 12 Sunday, 1997. Charles was a fine CW operator. He will be missed greatly here in St. Louis.

From Peter, KI0EG FISTS #2735

CONDOLANCES

Our condolences to Ed WA3WSJ and his family on the passing of his father. Ed is our Code Buddy Coordinator. If you're waiting for a reply to a Code Buddy request, Ed asks that you please be patient as he has family things to take care of at this time.

Our sympathy also to Pete K8OUA and his family on the death of his mother. You will recognize Pete's callsign from his work with the Traffic column as well as the Sprints.

CONGRATS TO:

Tom KI8CZ (ex-KC8DGU) on his upgrade to Advanced from Tech Plus! Tom says "The 13 wpm code test is easier than I thought. Those who think they can't make it ought to give it a try, they may be pleasantly surprised"

Jerry K6ZLL (ex-N2XHY) on his upgrade to Advanced!

Roland KG2LO (ex-KB2WIK) on his upgrade from General to Advanced!

Bill WA8JPR on his upgrade to Advanced!

CORRECTIONS

Troy #3154 was incorrectly listed as WI0K; should be WI0R

John #3114 was incorrectly listed as WB3UEC, should be WB2UEC.

Chuck N8WDH was incorrectly identified as N8DWH. This is particularly inexcusable since I have known Chuck for years. You'd think I've have his call right by now. He told me to remember it by the phonetics 'Wavy Dark Hair', but I can never remember whether it's 'WAVY Dark Hair', or 'DARK wavy hair'. I've changed the phrase to 'Won't Drive Here' since he always complains that our Field Day is too far from his OTH, hi. Sorry Chuck!

George #3030 was incorrectly listed as VE3MMO, his listing should have read: VE3MMQ, Waterdown ON/G0TUA Hythe Kent (W4HZD)

Meet Stephanie KC5VGQ

Hi, I am 15 years old and am in 10th grade. I was first licensed in July of 1996 as a Technician. On Sunday, June 1, 1997, I passed my 5 WPM code test (making me a Tech +) and the General written test. I operated on the 40 meter Novice/Tech+ band for about a week and a half, then went and passed my 20 WPM code test on June 12. I currently hold a General Class license and I hope to change it to Extra in the near future. I love CW and spend my time on the 40-, 30-, and 20 meter bands. All the hams I've talked to have been very nice and encouraging. My only complaint is that when I send my name, many hams drop the "ie" in my name and call me Stephen! I have to go back and tell them I'm a YL and send my name again.

My Dad is AD5X - FISTS #2905 and my Mom is N5UPT. I'm looking forward to receiving my own FISTS number 73 de StephanIE, KC5VGQ

Meet John K3HLU

I've been in FISTS for 6 months, but just getting around to introducing myself. I have been a ham since 1958. First KN3HLU, then K3HLU. Became TF2WKT in Iceland from 1968-1969, W7JEF in Montana in 1971, W4MPC in Florida, then N4JS in the first round of vanity calls...back in 1974!

Operated a lot of VHRF/UHF for 10 years in Mississippi. I was pretty inactive after moving to NJ back in 1986. Back in December, my interest in QRP was awakened, largely by the QRP-L list, and I went on an operating, kit-building splurge. Built a Sierra, ARK4, OHR400, SW160, GM17, WM20, and of course my Emtech (FISTS) NW80, which incidentally, is a great rig! Recently, been working on a couple of the little SST rigs.

I build these things on the graveyard shift. Gives me something to do during those log hours between IAM and 5AM, when it's quiet at work. Latest project is a CPCW-5 (Cakepan CW-5 watt) TUBE type (6C4-6AQ5) rig, and a matching superregen receiver! These are from Vintage Kit Company. (Am I allowed to mention that they give a 10% discount to FISTS members?)

Anyway, look for me on the CW bands, always QRP. 73 John L. Sielke

Thanks for sending in the biography John, and FB on the Vintage Radio Kit Co Ive been meaning to put info about their Cake Pan Radio Kit in the Keynote Vintage Radio Kit Co is owned by FISTS member Carl WBIEYE

The Cake Pan QRP Rig Kit

The Cake Pan is a vintage replica "no frills" basic 5 watt, CW-only design that you build in a fully punched cake pan. It has individually packed components with easy to follow instructions and all stainless steel hardware. It includes a custom power transformer and crys-

tals. I haven't tried one, but the literature says you can build it in just three evenings.

For more info, contact them at 427 North Main Street, Sharon MA 02067. Phone is 617-784-0847. An SASE would be appreciated.

Response to Popular Communications Editorial

Bill WA6YPE wrote to PopCom in response to an editorial by Harold Ort that said "ham radio is only a hobby" and compared CW to police carrying muzzle loaders, among other things. Bill writes:

...You contradict yourself by using the comparison of police carrying muzzle loading weapons and stating that the U. S. Coast Guard has even dropped CW. I can state from experience, being a former Coast Guardsman who enjoys sailing, muzzle loader shooting and ham radio. Neither the police nor Coast Guard communications could be considered a hobby.

In order to enjoy hobbies where your actions could easily infringe on, disrupt, or threaten the safety of others, it is imperative that you acquire and practice some basic fundamentals. Gun enthusiasts with the latest state of the art rifles and scopes often consider the muzzle load shooter with open sights the cream of the crop. However, if that same muzzle load shooter fails to practice the basics of gun safety, he is shunned by all.

The hobby of Sailing is surely not state of the art or fast compared to other methods of transportation over water. Sailing takes more than just going out and buying a boat, turning the key and taking off. It required skills and effort. However there are many that would much rather just go out and buy all the latest fancy electronic navigation equipment rather than learn the basics of seamanship that will save their tails when they become de-masted and de-antennaed in bad weather. The sailing fraternity takes a dim view of those that won't take the time and effort to learn and practice basic seamanship and basic boating safety.

The hobby of Amateur Radio is not intended to be state of the art and like other hobbies it requires effort and perseverance to gain the basic skills.

One of those traditional basic skills is CW. It allows anyone, anywhere, no matter what their economic status or language to communicate via radio. It is the basic form of communication that will make it through when all others fail.

Is it any wonder that the majority of the ham community feels strongly compelled to maintain the standards of learning and demonstrating the ability to practice the basics of the hobby? Hams, like the skilled enthusiasts of any hobby, have little respect for those that would rather cry about the fact that they just can't buy their way in and haven't the self discipline to take the time and effort required to learn the basics. Thanks for your time. William E. Smith WA6YPE

QRP With John Shannon K3WWP

The last two columns have generated some comments. KE3FL, Phil pointed out that I used MW instead of mW in referring to my QRP. I didn't catch that in my proofreading and my spell checker in Word Perfect doesn't know the difference between Megawatts and A couple of you want us to review milliwatts. HI other ORP rigs in the Keynote besides our own FISTS kit. I talked to Nancy about it, and we will do it. Nancy will include reviews as space permits in the Keynote. In fact, I have asked those of you who wanted to see other reviews to write up a review of your favorite rig and submit it to Nancy. Bob, W3CW has already said he would take a shot at it. If anyone else wants to try, just write about your favorite QRP rig in the form of a review, and send it to Nancy.

This month my topic is 'pure' QRP Dxing or Dxing with 5 watts ERP. Some of the things I say will be different for the QRPer in a superb location with a huge antenna farm. Also the info I am presenting is mainly from the USA side. I know we have many foreign members, who to us in the USA are the DX. HI

I never thought that QRP and DX could mix unless you had a big antenna farm in a great location. However, over the past 4 years I have proved myself wrong by making over 1000 DX contacts in 127 countries. I believe that anyone with a minimum of effort can get the basic DXCC award using 'pure' QRP. I hope the following tips help you achieve that goal.

The most important thing to remember about DXing, whether it be with 'pure' QRP or a KW into a stacked array on a 200 foot tower, is to LISTEN before you do anything. Of course, before you can work the DX, you have to be able to hear him.

Once you can hear the DX station, now you listen to see where the DX is listening for replies. If you hear him work a station right on his frequency, then you know he's listening there. Zero beat him and get ready to call, but again don't jump in too quickly.

Listen to find out the pattern of the DX station's exchange. Sometimes after the exchange of info, the DX station will just say TU, and then start listening for replies. Other times he will send QRZ?, or QRZ? de X2XXX, or just X2XXX. Some stations send dit dit. Whatever it is, learn when the DX station is done with a QSO and ready for the next call before you jump in.

Now you are ready to try the station. When that tell-tale signal comes from the DX station, send your call

once, nothing else. If you are fortunate, the station will answer you by sending your call and a signal report then K. You say TU and give him a report, and K. He will acknowledge you and move on to the next QSO. Very quick, like lightning, but you now have a new DX country in your log.

Of course that is the ideal situation, and it is not going to work that way every time, even for the most powerful station in the world, and certainly not for the 'pure' QRPer. Not to say it doesn't happen, though. A few times I have beaten out a fair sized pileup to work a DX station. Why? Sometimes it is propagation favoring you, but there are also things you can do to help.

Be sure your signal is as clean, crisp and your keying is as close to perfect as possible. DX stations often mention that it is not always the strongest signal that is easiest to hear in a pileup, but often a weaker clean signal with perfect keying is easier to copy. If you have a memory keyer, use that to send your call. It is possible to get nervous when trying for some rare DX, and be sloppy sending even our own call.

Another thing that helps at times is to delay for a second sending your call so that the last letter or two extends past the main buzz of the pileup. In my case, the DX station would then hear the WP and send WP? Then I send my call again, and make the QSO. That is assuming there is no other WP in the pileup, and everyone acts properly and does not transmit again if their call doesn't contain a WP. And we know the odds of that. Generally anyone who has a W in their call transmits, everyone with a P transmits, and others will transmit even though their call has nothing close to a WP in it. The best of the DX stations in this case will send WP? KN KN and keep doing this until everyone else shuts up except the WP station. If a DX station does this often enough, he can really take control of the pileup and make it manageable.

Pay attention to whom the DX station is working if you keep calling him without an answer. If he is working one W6 after another, and you are a W1, he may have his beam pointed to California at the moment, or propagation may favor the DX to California path right now. Note his frequency or store it in memory and look for someone else. Come back later and see if the DX station is working stations in your area. If so, jump in and try again.

Next month split frequency, DX rag chews, etc. I'm out of space. Visit my web site at http://www.geocities.com/CapeCanaveral/3852 for more QRP & CW info. -30-

Looking for:

Other FISTS who are using or have modified the Ten Tec Century 21 rigs. Pse contact David Tucker NU4N,1500 Massac Church Road, Paducah Ky 42001 Tel 502 554 0903

Dave says he had a real nice qso with KA1OX/QRP on 20 meters. He was running 5 watts and Dave was running 3 watts with the OHR 20M EXP II. Dave comments that the bands seem to be getting better every day. 20 & 30 meters seem to be staying open later now. Hope this is the start of Cycle 23.

Gordon G4ZPY is looking for a pair of EX WS American Naval Earphones. They are pale green in color and usually have a Boom Mic attached. They completely block out all outside noise. Gordon's hearing isn't as keen as it used to be and he is quickly distracted when on the Key (one of the problems of age, he sez, HI). If you can help locate a pair of these headphones reach him at Gordon Crowhurst, 41, Mill Dam Lane, Burscough, Ormskirk, Lancs, England L40 7TG.

Barry Minsky W2BJ/KA2MB is looking for a *Mercury Paddle*. His address is 21st TAACOM Unit 23203 (CHP), APO, AE, 09263.

Smokey's Engravings

In the May CQ there is an article about FISTS #3128, Smokey KN6AE. He does some fabulous metal engraving, specializing in customizing Morse keys.

Becky KG6GUH knows Smokey and says: "I have seen lots of his work and can say it's quite amazing! He has engraved my om's key - with gold inlay! He will be engraving mine key soon and I will send you a picture. I wanted to share his name and number in case there are other FISTS interested in having some engraving done to personalize their keys. His name and address are: Smokey Gaines KN6AE, 640 E Bayan St., Ontario, Califoria 91761 (909)983-8800

"I also wanted to say what a great addition he is to our Fists CW Club. He is a symbol of what we stand for. When I was learning code, he was always there with a encouraging word. After I received my ticket he walked me though my first CW QSO. Patiently, fully understanding my nervousness, and doing his best to make me relax! He encourages good code, not fast code, and has also started a code practice net on 10 meters, 28.340 from 2300-2400Z Monday - Friday. He is truly a shining example of what an Amateur Radio CW Operator should strive for.

73 Becky KF6GUH."

If We Didn't Have It, We'd Have To Invent It

ARRL's recent ill-fated Novice Enhancement program reaped minimal results. Enhanced Novices are scarce, indeed. If "now You're Talking" failed to inspire benefits, "Now You're Talking Even More" is even less than thrilling. Current "Everybody Enhancement" proposals appear to be outdated and counterproductive maneuvering toward issuance of ham licenses to every citizen at birth, replete with a vanity callsign.

If noncommercial interests below 30 MHz are to survive in the looming future, narrowband techniques must apply. Extending broadband emission authorizations in our already pinched HF assignments is reverse LRP, long range planning, for the past century's sparsely populated spectrum. When the teeming multitudes in China, India, etc. inevitably join recreational HF radio per capita, one need not be a rocket surgeon to foresee ionospheric bedlam. Add to this the factor of surging radiational noise pollution.

Amateur radio is fortunate to have available a simple, effective and economical tool for the coming crowded HF millennium. Manual radiotelegraphy has served us remarkably well through all the years while other emission fads come and go. Sheer logic requires us to appreciate and preserve CW for continued worldwide Communications Enhancement.

Rod Newkirk, W9BRD #1782

Code Buddy Feedback

I've been a Code Buddy since the end of March, helping Claude, **KO6RU** get up to where he'd like to be with his CW. It hasn't always been easy, but it's been rewarding and fun, and the regular QSO's have been as helpful to my sending and copying as I hope they've been to Claude.

Anyone who has a little time to spare, whether it's to improve or to help a fellow Fist improve his or her code skills (or both) should give it a try. The best part is that you'll make another good friend on the bands. If this makes it into print it will be after the Sprint, and if I worked you, thanks! 73 de **KQ6ES** John #2406

My "student" has just informed me that he now has the confidence to make CW QSO's with other hams.

I'm happy that I have helped him..... I'm sad because I'll miss our CW QSO's and our other contacts via the phone and mail. Once again, because of FISTS, I have met a nice person whom I consider my friend. 73, SAM **KB8OOM** #1582

News and Views From FISTS Members

From Paul KC5RGQ: Glad to finally get my application into FISTS. I received an application from AC6QO back in January '96 and misplaced it. When this one came from K9JXW, I sat down and completed it right away. I hope to be an active member.

Shortly after I first got my license back in October of 1995, I managed to obtain a rather badly broken right arm. Not wanting to put off getting on the air, I learned to send and copy left handed. I still use the left hand on the paddles. Started learning the straight key with the right hand in time for SKN this year. Just passed my 20 WPM test, on the first try, this last weekend and I'm looking for the new Extra ticket to arrive in the mail soon.

I'm a member of a small club of CW enthusiasts here in Alamogordo. Most of us like to get on the air on ten meters and just spend time chatting, much as we would if we were using the mike. We even work MCW over the club 220 repeater with our home brew rigs! This conversational CW practice is great as you develop vocabulary not normally used in a QSO. My transition from 5, to 13, to 20 WPM was comfortable with no conscious effort to build my speed. Guess I'm just repeating what everyone says, that the best way to learn CW is to get on the air and use it!

My goodness Paul, learning to send left-handed with a broken right hand certainly shows dedication! That's amazing! Welcome to FISTS!

From Roland KG2LO: I have been having loads of fun meeting new friends on the FISTS calling frequencies. Folks on the CW bands are the greatest! I look forward to receiving the FISTS newsletter and read it cover to cover. Keep up the good work! Hope to meet you on the air waves some day. Take care es TNX. Thanks for the kind words, Roland! I'm glad you are enjoying being a FISTS. Congrats on the upgrade to Advanced!

From Ken AD4OS "The Voice of Purdue University": I was wondering if you know if there is a FISTS group getting together for field day in Chicago area. I have an internship with Motorola's cellular division in Arlington Heights this summer, as a rf engineer and will be away from home during field day. I would like to get together with other cw buffs. If there are none I am sure Motorola has their own club. I can be reached at my email address kwarren@ecn.purdue.edu or callbook address. I not sure of a phone number yet.

Wouldn't you know I didn't get this in the KeyNote in time for FD — but maybe you can get a FISTS group together to operate the FISTS Anniversary Special Event Congrats on being elected Presof the Pardue Ham Club, Ken!

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From John KC1MI: I thank all of you for pulling for me during my hospital stay and what turned out to 2 major operations. Received some new plastic intestinal tubes and needed more emergency surgery in my throat. Guess the surgery in the intestines did not go 100% because a priest was called in to administer last rites. I was told ahead of time however that this is a pretty rare operation but my only out. So being the stubborn ham that I am, I said "lets get on with it, I'm no good this way".

Thanks to all of your thoughts and prayers I made it. I am house bound and in serious pain but the pain medication helps a lot. Am very weak and have lost lots of weight which I need. Very weak so spend most of the time relaxing in the bed and eating like a horse. The doc won't let me exercise yet but pretty soon, to build myself up again. I'd like to thank the club publicly for their thoughts and prayers. I really got a kick out of your card, it really cheered me up. Well till next time, my visiting nurse just said "back to bed" 73/88 to all for now, John KC1MI We're alad your operations were a success John, and hope you have gotten your strength back and we hear you on the air soon! You're in our thoughts.

From Alan WA0FAX: Another Sprint has come & gone. Sure makes a nice little contest for a Saturday afternoon. Seemed to be more FISTS this year too. 40 meters wasn't bad, 20 seemed kind of flat. I didn't hear anything on 10 or 15. I also called CQ on the 40 meter novice band until I was cramped, but didn't get a novice/ tech response. Where are all these hams hiding. All I work up there are other guys trying to work novices. No wonder they want to give these bands away. I guess the night time is far more active tho'. Did work a Russian FIST right at the very end. Worked FISTS that I have talked to before, some many times, as well as many new ones. The FISTS QSL buro will be busy for sure, which is another good benefit. Anyone who wants to participate in an easy contest, meet new FISTS or fill in the blanks their Century Award sheet - get into the FIST activities. That's what it's all about. Yep Alan, that's what it's all about The Sprint 15

From Alan K6SRZ: Is there a FISTS calling frequency on the WARC bands? In California, 14.058 is jammed with all manner of QSO's and late at night when I do much of my operating, 7.058 is obscured by Asian SSB. The top end of 30 M is often clear.

alot of fun. The results are elsewhere in this

issue of the Keynote, along with more comments.

This has been discussed quite a bit, but no one seems to be able to agree Let's try the top end of 30 and see what happens, OK? Let me know how it goes.

FISTS CW CLUB NEWSLETTER

ISSUE 7 1997

From John KG9HE # 2501: Here we are in the mountains of east Tennessee, or as the old timers call it, Upper East Tennessee. The move went off without a hitch, and all of my radio equipment, and computer arrived in working order. Couldn't wait to put the shack together and get on the air.

Had two brand new Radio Works antennas and four ideally located trees, so with a little help from my wife, my trusty slingshot, and a local ham, I have them positioned. The Super Loop faces northwest, and the Carolina Beam faces northeast. Amazing what a little elevation can do.

My first week resulted in numerous early morning contacts into Australia and New Zealand on 30 meters, think I had a few Japanese stations thrown in too. Didn't get any FISTS #'s for my first Century Award though. Wonder if we have members down under?

Second week concentrated on European and Mid-East paths. Again no luck on the Century Award. This surprised me because I have had a number of FISTS contacts in England and Europe and know there's a bunch over there. These contacts, including one in the Ukraine and one in Macedonia, were on 20 meters near the FISTS calling frequency at around 22:00 utc.

The local Amateur Radio Club is very active, involved in many local events. Many trying to upgrade, and I hope with the presence of a CW nut, they will be fertile ground to plow for FISTS.

Thanks Nancy and the group for a great club, and special thanks to my friend Bob N9UUI FISTS # 2402 for the sponsorship and periodic skeds on 30 meters. If anyone is interested, especially county hunters, look for KG9HE, FISTS # 2501. I'm usually on 30 meters early and late, and also 20 meters calling CQ FISTS on frequencies 10.110 and 14.058. I may be the only active CW operator in the county. From Johnson County in Upper East Tennessee, 73 John.

FB John, I'm glad you're move was successful and you're back on the air so soon! We do have FISTS in New Zealand, but I don't think we have any in Australia yet

From new FISTS member Ernie KD6VMY: Just a note to say it was a pleasure having a QSO with a gentleman op Mr. Branca K2SB...There is a difference with a FISTS op, I have noticed...they never hurry the QSO and always say a great thanks, well wishes, great conversation and an interest in the QSO. K2SB did as promised, followed up with a form for FISTS and no hard sell -- only kind words for FISTS and members. Welcome to FISTS Ernie, there certainly is a difference when you work a FISTS member on the air - one of our mottos (coined by Don KC4UUG) is "when you work a FIST, you work a friend" ISSUE 7 1997

Bunny **AE4P** sends in his renewal with the note: Just wanted to let you know how much I enjoy the FISTS Club members. I qualified for my 2nd Century Award today!!! Finally got to talk to Irene **WO8E** just before the Spring Sprint began.

Thanks for the renewal bunny, and congrats on your 2nd Century. I'm still working on my first, believe it or not!

Dan AE4AI writes: I am pleased, very pleased, to be a part of FISTS. I send copies of the application/info sheet out with every QSL. It is an honor to belong to such an outstanding group of decent hams. Thanks to you and all the other great ops who work to make FISTS possible. I am a single parent and see to have little time for radio, but when I do I head for 7.058 or 14.058. FB Dan, I'm glad to hear you are enjoying being a FISTS member. Being a single parent must make it hard to find time to get on the air. I've never had any kids, but sometimes I feel like a mother hen with FISTS. Maybe that's why I rarely have time to get on the air, hi.

Bob N9UUI sends in his renewal and says FISTS is the best club he's been in yet! He's enjoyed meeting nice people like N3XJQ and AC5GP on the air and hopes to meet many more.

From Gene KI0FM: I'm sending in my renewal for another year, thanks for last year. Have been off the air for 7 months now but should be back on the air soon. Enjoy all of the articles in the newsletter. I want to thank Scott W3CV for the article about Emtech. I purchased a complete kit and should be on the air shortly QRP 40 meters. This is one nice kit, my first kit. K3WWP John Shannon's articles got me interested in QRP, keep up the good work. I love the FISTS CW Club. How about this, "Try the rest, then go for the gold and join the best; FISTS CW Club."

Thanks for the renewal Gene, when you get your Emtech built drop us a line and let us know what you think of it!

I was sorry to read this letter from Carl WK4CR (ex-KR4VQ): I won't be able to renew my subscription this year. Am not doing too much radio lately. Guess ham radio was getting to be more important to me than my family and was overlooking a few things so I better get my act together. Maybe someday I'll be back, but for now I will call it quits. If you hear from any of my friends like Don KC4UUG, Maggie WP2T or Scott W3CV pse say hello for me and tell them that I always remember them. So long for now, God Bless! Hope you work things out and we hear from you soon Carl; We'll miss you on the air!

From RJ (Bobbi) KB9GKX: Thus far, I have managed to work one FISTS member; given a limited amount of activity, low power, and my closest crystal being 2kc high (7060), that's really not too bad! He was the first QSO on my recently-completed 1930's Jones Regenerative Oscillator single 6L6 transmitter, about 10W out. Did succumb to temptation and set up the HW-9 yesterday—looks a bit funny among all the 1930s-50s gear but it's more frequency-agile and less TVI-prone. Would probably drive an 807 pretty well, too! You must have a fascinating shack, Bobbi Thanks for the history of CW terms article, which I printed elsewhere in this months KeyNote. I'm sure many will enjoy reading it.

From Lou NB2T: Hello, I have been a member of FISTS since Feb. I have just applied for my Century/QRP award. In the three months it took me to work over 100 points, I have never had so much fun getting back on CW again. I joined at the request of a dear friend, John WB2EXI. John and I operated RTTY for many years together. But he has always been a CW operator.

Your group of fine CW ops are always there to help. I have brought one ham into the FISTS group and I think another one will follow, since he asked me for an application. I still believe very strongly that CW should remain as one of the requirements for getting on HF. I have voiced my feeling to parties concerned at the League, and other people that CW is the only way to show any newcomers into this fine hobby. Too many changes in this hobby are not helping, but hurting.

The FISTS group are showing the right way to get into the hobby. I can't believe that over 500 people have joined this fine group since I did. You must be doing something right, CW Forever. Good CW operators show the way. 73 Lou NB2T

FB Lou, thanks for letting us know that you're enjoying your association with FISTS. FISTS members have good reason to be proud of themselves and our club, I think we set an excellent example of CW operating on the bands! And Congrats on aetting your Century/QRP in only three months—that's remarkable!

Ken W6NKE sends in his renewal for two more years with the note "This will cover me for a few more years. I'm currently 77 and hope I will have to pay for further renewals! I read your debate with W5YI with great interest. You hit the nail on the head! The elimination of the code requirement is strictly based on greed (money)! The same applies to the manufacturers of ham radio equipment. Profit is the bottom line and the good

of ham radio is way down their list of priorities. Unfortunately the same basis, profit, exists in some of the major ham radio organizations. I feel FISTS is the major stronghold of preserving CW as a requirement of obtaining an HF license.

"I've been a ham and commercial operator for 16 years. There have been many changes during that time. However, the move to eliminate the code requirement for HF license privileges is the most frightening. It will open Pandora's Box and they'll never get the lid back on!

"I've been able to work a number of FISTS members around 14.050 kHz but haven't encountered any on 40 meters. What frequency do members hang out on the band? You'll find FISTS all over 40 meters, Ken, particularly on the OS8 area – or try the Novice band around 7.108

Some thoughts from Jack WB2FXK: 'Everybody asks how many FISTS I have wrkd - no idea, but nearly 400 QSL's so far. Probably 50% on your .058 freqs. When I hear someone calling CQ FISTS or some other club I always think they want to QSO a member of group, so I very seldom call CQ FISTS if I just want to QSO and I catch a lot of non-FISTS ready to join up. (Jack is one of our most successful "recruiters"!)

" I had a great time in Dayton wid everyone but you and Irene (WO8E) really make the weekend. I never remember all the FISTS I met, hi. Great QRP column but think they should give US a lil (LOT) credit for digging those weak signals out of QRM/QRN/QSB, hi! Don't let us get in the habit of knocking other modes, etc of Amateur Radio to make CW look better.

"I'm teaching code still and believe getting on the air and working stations is the best, easiest and most fun way of learning code. Some people can enjoy tapes and W1AW but I never did. Also not interested in how fast you or I can copy, just so you can copy me and I can copy you thru QSB, etc. Probably most QSO's run under 25 wpm, so I'm in this hobby to communicate and enjoy. Thank goodness a lot of hams have slowed down for me over the years so I could enjoy and have stayed with it.

"Thank you for being a FB Rep for FISTS in the debate with W5YI. You sure did a great job, professional and did not get off the target. I sure ramble a lot, but wanted to stress that we appreciate you very much." Thanks sooooo much Jack, I really appreciate your kind words! Next year in Dayton, don't forget to check into the FIST Booth before you go flea marketing so we know you're there, hild this year, Jack didn't check in with us until late Friday and everyone was asking "where's FXK??" He had us worried!

Bud WA2BQI has been quite 'radio-active' in 1996! He has over 85 certificates and awards, but says his FISTS Century Award (#174) is the best looking certificate by far. His results for 1996 are

- 1. WAS 2. WAS-40 (last state needed was DE, and wudn't you know it, he was a FISTS member K3AS!)
- 3. FISTS Century Award
- 4. 2nd place out of state for NC QSO Party/97
- 5. 1st place NY for TN QSO Party
- 6. 1st place NY for IL QSO Party (2nd yr in a row)
- 7. 3rd place NY for WA Salmon Run
- 8. 1st place single op single 40 mtr ARRL DX 'test
- 9. 1st place operating 96 Field Day class 1D
- 10. 1st place NY for NB QSO Party
- 11. 5th place NY for WVA QSO Party.

Bud's comments concerning the CW Debate is "STOP YAKKING - START CLICKING"

Bob W1FHP sent me a sample of the QSL card he sends out for his club CW contacts - it has a sketch of a hen with headphones sending with a straight key and says "from the Hen House Gang" and of course, the FISTS logo. Very cute!

Gordon G4ZPY, of G4ZPY Paddle Keys International fame, sent along a very nice letter, saying that he's hearing very good reports on how well the NA FISTS is doing. Gordon says he tries to get on the air most evenings (UK time). He was off the key for about 10 years because he just could not find the time, but Brenda (his wife) insisted that it was time he got back on it. He says he "was scared stiff at first, because my CW had sadly gone down hill. I am getting back up to speed slowly now, and can go about 20 on a good day. On a bad day I'm down to about 14. It is embarrassing when people expect you to be able to tx at about 30. I don't think I shall ever get back to that speed, because my poor old brain won't work that fast these days. My keys will not be collectors items for a while yet. I am not ready to "cock my toes up." Thanks for dropping us a note, Gordon And FB on your not being ready to "cock your toes up" - I don't have one of your straight keys yet, hi!

PS: We have applied for, and received, the Domain Name of "fists org". Consequently, the URL of our Web Page will be changing in the near future to a more simplified address, probably "www.fists.org". Lee N9NVV is working on switching the systems over to the new address. We'll keep you posted on the progress and let you know when you can start using the new address. The old address will have a link page, so people still using the old address will be able to find the new page.

CW In Canada

Here in Canada, we have a problem that doesn't seem to have a solution. There is a very small percentage of Canadian hams that belong to RAC, I think it is about 25%. RAC officials have decided, with no debate, that their job, after elected, is to "Make decisions" on behalf of Canadian amateurs. Their decision on code.. is no code. They have closed the books on the issue and are not interested in any sort of democratic process to deal with this issue.

Sadly, myself, and other hams have found that there seems no way to deal with this issue, without bypassing RAC, and lobbying our federal radio department, Industry Canada, directly.

IC has responded with dismay, and has temporarily halted a transfer of powers to RAC in regards to license administration, etc. RAC thinks this is a terrible thing, and do not see this as a lack of confidence in there arrogant ways. (They believe this is strictly a financial thing). I do not know where this is heading. Insight from you or anyone else at FISTS would be much appreciated.

There is no official survey of the approximately 47,000 Canadian hams on the issue. But straw polls continually indicate that the retention of a CW requirement is favoured.

It is very unfortunate for all of us that we have such a narrow focused and undemocratic group as RAC. And, of course, their view on the code requirement is disheartening.

With any luck, they will pay some attention to the ground swell of opinion in the USA about this code issue. Thanks to FISTS is due in no small measure!

Jeff Smith VE1ZAC # 2048

Novice Band Calling Frequencies

I think we all agree that we need more activity on the Novice Bands - Arnie KT4TK writes in and say: "We as Fists, always talk about trying to help others learn the code. That's a great goal and I think we should continue to do just that. I do think, however, that we need to have specific calling frequencies within the Novice sub-bands like we do in the General portion of the bands. The following are my recommendations:

10	meters28.108
15	meters21.108
40	meters07.108
80	meters03.708

Let the CW amateur community get to know these frequencies and they will start to be used.

I didn't consult a band plan to get these, so hopefully I didn't step on someone's toes (hi). Arnie-KT4ST"

MONEY, Money, money

With all the new FISTS joining up, there are probably some questions about "Where does all the subs money go?" As you might imagine, most of it goes toward postage and printing. Each new member gets a certificate and complete set of photopages (if you haven't gotten yours yet, don't worry - I'm working on it!). The certificates cost about a quarter and the package costs .78 cents to mail.

In a typical month we spend .55 for a KeyNote (24 page); .10 for a single sided photopage and .27.7 for postage. Add that up, multiply by 12 and it comes to about \$12.15. So, 80% of the subs goes directly toward the newsletter and new member packets.

Sending out samples and applications to prospective members gets VERY expensive at .78 apiece for postage. In fact, we are going to stop sending out sample Keynotes to those who do not include sufficient postage or a green stamp. I hate to do that, but it's eating us out of house and home. Joe KK5HR is doing a fabulous job keeping track of all this and sending out the requests for FISTS information.

From now on, when we get a request for information, Joe will send out one of the tri-fold brochures like we gave out in Dayton. It tells quite a bit about FISTS, includes an application, and best of all only costs .32 to mail. That will help keep expenses in line, as we get at least 50 requests for info a month.

The PO box, bulk mailing permits, Web page DNS, Century and other awards, and the QSL Bureau are paid for by the subs money.

The buro is supposed to be self-supporting, so PLEASE include some stamps when you send in cards or a dollar once a year if you send DX cards. DX postage is at least \$5 a month, which adds up to over \$60 a year. If everyone who sends cards chips in a little it would be appreciated!

The member roster is published twice a year (Jan and July) in the Keynote. The new FISTS are listed in the Key Note each month, so you can keep your list up-to-date by keeping track of these. If you need a list pse send a dollar to defray the expense because the membership roster is 10 pages long now. The list is also available on our Web page - the space for which is donated by Lee N9NVV, our NA Award Manager.

Other costs we incur are the Presentation materials We have three sets of them and include sample Key-Notes and applications. We also have a small investment in audio cassettes for our Talking KeyNote which is sent to our blind FISTS members.

Having the booth at the Dayton Hamvention has been a big boost to FISTS. We are very grateful to the Hamvention people, who have given us the equivalent of a \$500 booth for the last five years! But, that doesn't

mean it doesn't cost FISTS anything. We pass out a thousand sample newsletters, applications and info sheets at the Hamvention each year.

And there is the hardware that keeps FISTS running. We also need software for making the KeyNote, keeping track of the finances and members, as well as paper and ink for the printer, stamps, and phone calls.

Whenever we have any excess in the bank, I "reinvest" it in supplies. Buying things like patches, pins, stamps in bulk lets us pass the savings on to you. These items are sold at cost, so there isn't any profit involved.

I've been asked about Life Memberships. I like the idea, but FISTS is growing so rapidly it's hard to get a handle on what the projected costs are going to be over the next few years. I'd hate to commit to a price for a onetime Life membership, then find out we don't have enough to run the club down the line. We haven't had a subs increase in our 10 years - in fact it's been reduced. Original FISTS may remember that subs used to be \$17.50. We really are operating on a shoestring, and I'm doing what I can to keep the costs down.

All FISTS workers are strictly volunteer - no pay, but I'm sure I speak for all of us when I say that the satisfaction of seeing FISTS grow is the very best "perk" we could ask for!

PSE QSL! by Bill Roberts, K7UF #3122

I enjoyed Marty Reid's #2668 letter. It was ten years before I realized there was a mic jack on my rig. Marty's letter brought back memories of all night CW sessions as a Novice on the 40M band. I still have my first PR crystal, but now it's mounted on a wall plaque. I spent many sleepless nights worrying if the FCC could tell if I was running 90 watts from my Globe Chief.

That was over 30 years ago and I still find myself in the middle of the 40M Novice band working the new operators. If it wasn't for some of the Generals helping me improve my code skills I would never have made it this far. The Novice was a one year license and not renewable. I have made it a point over the years to continue the practice of helping the new operators. I may dose off between the letters now and then, but I remember I also started out the same way.

It was always an unwritten rule on CW to send a QSL card. No self respecting Ham would ever think of asking for a SASE When a card was received, a card was always returned. Of the last 35 cards I mailed, I have received only 12 in return. Come on guys get with it. CW operators are few and far between, perhaps a dying breed if others get their way. Lets keep our fraternity an elite group of radio operators. Be proud of your call and your stature, send out your QSL's. Help keep our ranks strong; professional and courteous. We are what Ham Radio is all about! Bill K7UF

Product Review: MFJ-9420 20-meter QRP SSB Transceiver by Phil Salas - AD5X

Oh no. What do I need another radio for? Well, I found a great deal on a brand new MFJ-9420 transceiver with microphone, CW adapter, and matching power supply. The price was too good to resist, and I'd heard lots of good things about these rigs.

The MFJ-9420 transceiver is a small (6"X6.5"X2.5") light (2 pound) 20 meter SSB transceiver that puts out 8-10 watts PEP. It was designed by Rick Littlefield who has written many QRP articles over the years. It has a very simple layout which includes few controls: on/off, tune, main tuning, and audio gain. The "tune" button puts out a carrier so that you can adjust a separate antenna tuner or check VSWR. The 9420 uses an analog tuning dial. However, I found this tuning dial to track accurately across the band. The receiver incorporates a 6-pole crystal SSB ladder filter that appears to be very sharp. It also includes a built-in speaker that delivers plenty of audio. The 9420 only draws 100 milliamps on receive, and 2-amps maximum on transmit so vou can run it a long time on a small gel-cell. If you think about it, 10 watts PEP is only 10 db (about 1-1/2 S-units) below the typical 100 watt transmitter. MFJ helps compensate for this with an extremely effective audio compressor which keeps your average transmit power higher than normal. This results in an extremely punchy audio signal which elicits good comments from stations that you talk to. Contacted stations are always amazed when vou tell them that you are running only 10 watts. As an example, on March 22 I worked ZF2JC/ZF8 (Little Cayman Island) in the middle of a huge pileup. He answered me on my third call and told me I had an honest 5X7 signal!

Along with the 9420, I also received the CW adapter. This helped cinch the deal on this radio since I spend 95% of my time on CW. The CW adapter is a small plug-in circuit board that easily mounts on pins on the main board. Three screws hold it in place. A CW on/off switch and a 1/8" key jack which are mounted on the sub-board line up with holes on the back panel. Circuitry on the sub-board unbalances the balanced mixer to get a carrier output, offsets the carrier 700 hz (this is adjustable), provides a 700 hz sidetone, and provides an adjustable break-in delay time. There is also a variable capacitor so that you can rezero the main tuning dial after the CW adapter is plugged in. The dial has two scales: the outer scale covers the 14.15-14.35 Mhz phone band, and the inner scale covers the 14.00 to 14.15 Mhz CW band. The CW on/off switch on the CW adapter changes the tuning range between the two.

Since this is primarily an SSB transceiver, features such as full QSK. RIT and a narrow filter are not provided. However, the CW performance is quite ade-ISSUE 7 1997

quate. Incidentally, while 10 watts PEP on SSB is considered QRP, only 5 watts CW is. So, I am not really operating QRP when I use this radio on CW.

I also have the MFJ power supply. This is simply a 14 VAC wall transformer, and a small box which contains a full wave rectifier and a 12-volt 3-terminal regulator with three diodes in the common leg which gives a 13.7 VDC output. A 3-terminal TO-220 regulator is only rated at one amp so I was curious as to what a reduced output current would do to the 9420. The power supply didn't start limiting until the output current started to exceed about 1-1/2 amps. Running the 9420 from a high current power supply, the CW output power is 10 watts. Running from the tiny MFJ power supply, the output power was 8-watts. Not bad! There is now a 78S12CV TO-220 3-terminal regulator that is rated at 2-amps. I'll probably give this a try pretty soon.

I do have a few criticisms. First, there is a deposited (on board) printed circuit trace that is the input fuse. If you ever hook up power backwards, you will blow this trace on the pc board. I am going to put an in-line fuse in the power cord and bypass this fuse with a buss wire. Also, the reverse voltage protection diode is a IN4001 which is only rated at one amp. Since the pc trace/fuse can handle at least 2 amps, the diode may open up before the trace does if you connect power backwards. A three amp diode in this position along with a 2-1/2 amp fuse would make more sense.

Next, the 9420 doesn't have a headphone jack. This would not only be handy for quiet listening at home, but it is also necessary if you want to use one of those CD-to-tape player adapters to pipe your audio through vour car stereo system. The 9420 has a balanced speaker output that is not referenced to ground so adding a headphone jack is not as easy as normally expected. I got around this by mounting a Radio Shack RS 274-246 enclosed closed-circuit 3-conductor 1/8" jack in an enlarged hole on the back panel. This jack has an outside diameter of 1/4" so I drilled a 3/8" hole in the back cover and used a 1/4" nylon washer (local hardware store) to insulate the nut from the chassis. I just centered up the jack in the hole so it didn't touch the chassis, tightened it up, and then added a drop of epoxy to the jack to make sure it never moves.

Finally, I would like to add a narrow audio filter for CW, as well as a "spotting" switch and circuitry. There is plenty of room inside for these additions. I'm sure this will happen within a short period of time.

Overall, the MFJ-9420 is a great little rig. They show up on the used market periodically. You can get a good start on HF with this little rig when you get that General Class license, and continue to use it as a portable or mobile rig after you upgrade to a multiband HF rig.

PSE QRS

Last month, I printed a comment from Rich AC4NW, who is of the opinion that slowing down to accommodate those who can't copy faster is not good because they will never increase their skills that way.

From Irene WO8E: I would like to respond to Rich, AC4NW regarding his comments in Issue 5/6 of the Keynote. Rich disagrees with the idea that we should slow down to accommodate the new or slower operators. I believe he has forgotten as FISTS and ham radio ops we want to encourage not discourage.

Yes, it is true there are code practice tapes out there to pick up our speed. But there is nothing like the experience of being on the air. I am thankful for Don, KC4UUG and Maggie, WP2T during those early years of Don's net for keeping the net at a speed that all would be encouraged to join in. If they had not slowed up for me, I would never have had that enjoyment of taking part in the Fists net.

I hope that our new members will not be discouraged by Rich's AC4NW point of view, believe me, it is not the Fists view. Irene, WO8E

I disagree with Rich, AC4NW about not slowing down for a slow goer on the air. One of the best ways to discourage a new CW-er is by going too fast for him/her. One of the best ways to encourage as new user is to demonstrate kindness by slowing down and sending beautiful code, and to give plenty of encouragement and praise.

I do not disagree with his methods of gaining speed. I will only add one more which he seems to be against, get on the air and practice by making plenty of QSO's and join a slow net. The MSN (Maryland Slow Net) sends at your speed and then at about 1/3 the way thought all the messages they hope you're up to 15 WPM because by that time they start sending at 15 WPM and you have to request slower. Actually I always ask because even beginner MSNers can be extras & want to go faster, or they can be on their way to that General or Extra & would like double practice, one is receiving fast & one in learning about CW traffic handling.

Bottom line for CW speed? Practice, practice, & more practice. There is no substitute for practice. 73 de Phil Karras, KE3FL, #3117

From Bob AA2SM: I find that just about every FISTS member I have had a QSO with always strives to send at a speed which they can handle and more important they seem to concentrate more than others on spacing and using correct punctuation and "Q" signals. Although I have no problem in copy of a person sending at 30+

WPM and sending correctly, I find it very difficult to copy a person sending 10 WPM and running words together. I often go to thee Novice portions of the bands and enjoy working with fellow hams just starting out on CW. One of the biggest enjoyments I have had on CW is having a QSO with a ham and his/hers first ever CW contact.

I have had the pleasure of being a first contact on five occasions and you can almost sense the excitement of the moment for those hams. I remember my first time on CW and let me tell you, I was really nervous. As soon as I made my first contact, I wanted to say 73 and call it a day. It was my luck that after I mentioned it was my first CW QSO, he then wanted to ragchew - hi. I did have the opportunity to run into the ham who I had my first QSO with 6 years earlier. Although he did not remember me, I did express my appreciation for his patience that day, and putting up with my effort. My advice to operators just starting out on CW is to practice, practice and more practice. With that comes confidence in your sending and receiving. There are a lot of nice contacts to be made on CW and a lot of good DX with the use of a modest setup in equipment. I have an old reliable Kenwood TS 830S, an A3S Tribander and a dipole hanging in the backyard, which my XYL on occasion has tried to hang things on , hi I really enjoy reading the Keynote Note every month. Find it real interesting and sometimes read it three times. 73 Bob AA2SM.

CW ELITISTS? NO! by Bill Marsh K3AS #2164

Most of you who read this will be members of the FISTS CW CLUB, the International Morse Preservation Society. The stuff that binds FISTS MEMBERS together above all else is a love of Morse. Friendship, courtesy and helpfulness are usually part of the mix. I happen to think this is also true of the CW community at large. But there are differences too. And since we are a CW fraternity the most obvious of these are our variations in skill at receiving and sending Morse code, and operating procedures.

One of the definitions for SKILL in my dictionary is "Proficiency, facility, or dexterity that is acquired or developed through training or experience." The same dictionary also defines ELITE as " The best or most skilled members of a group."

So the best or most skilled members of the CW community become the elite, although I'll bet not many of them think of themselves that way! Even if some do, it's a far cry from ELITE to ELITIST which my trusty dictionary defines as "The belief that certain persons or members of certain classes or groups deserve favored treatment by virtue of their perceived

superiority, as in intellect, social status, or financial resources." Wow, who wants to be one of those! There will always be differences in skill levels, but vive la difference!

I don't believe there is an elitist conspiracy afoot to ignore the newer members of our hobby. The great majority of CW ops do lower their speed to accommodate the other person, without being asked, and try to be helpful in other ways. While there may be an occasional individual whose attitude would not embrace the FISTS code of ethics, they are extremely rare. Many cases of discourteous behavior are simply accidental.

So let's continue with the ham tradition of the more experienced helping the less experienced. As some-body once said "Lets all hang together or we shall hang separately."

POLITICS

Even though FISTS is not a Political Action Group, many of our members are very involved and concerned with the future of Ham Radio. From time to time, I've put articles in the KeyNote, urging you to write a letter to your ARRL officials telling them your thoughts regarding Morse Code and it's importance to you as a Ham and to the future of the Amateur Radio Service.

The only way we are really going to get our message across to the ARRL and The Powers That Be is to have a united voice and make sure our voice is heard. You may think that your vote doesn't count or you may have even given up fighting for CW, thinking that your opinion isn't important. That could not be further from the truth!

This is the time of year when the ARRL is taking nominations for the upcoming election of Officers. Some of our FISTS members are so dedicated to The Cause that they have decided to run for office themselves and fight for what we believe in.

It is important that you participate and vote in these elections. Vote for the candidate that represents your point of view, not just because they've been in office forever. With the WRC-99 and other conferences coming up, we need to be sure that the people in position of influence will have the best interests of our hobby in mind; not who's buying the advertising space in their magazines.

You may decide that you would like to run for office yourself - anyone who has been an ARRL member for four years and holds a Tech license or higher can file a petition and run for office. (See July QST for details) We need to get more officers in the ARRL who will represent the people, not the commercial interests!

If you decide to run, let me know so I can put it in

the KeyNote. As I've said, FISTS is not a Political Action Group, but I think we owe it to ourselves and the future of Ham Radio to be INFORMED members of the Ham Community. Candidates who have Pro-CW points of view deserve our support in the elections.

Joe Falcone N8TI is running for Director in the Great Lakes Division (Ohio, MI, KY). He writes:

"I have decided to run for the position of ARRL Director of the Great Lakes Division. I realize that in order to ensure that Amateur Radio does not wind up as an extension of CB Radio, we all have to make sure that the ARRL acts on behalf of its members rather than on behalf of its paid employees.

"To achieve that goal, ARRL members have to vote into the ARRL's elective offices people who are not willing to sell off the future of Amateur Radio in exchange for a few more pages of advertisement in QST. Just as accommodating the use of thousands of newly purchased CB radios did not "save" CB Radio, eliminating the requirement of learning Morse code to promote the sales of thousands of HF radios is not going to "save" Ham Radio. Filling up our already crowded ham bands with thousands of new single side band signals should not be the purpose of the ARRL.

"The amount of profits of those who engage in the "business" of Amateur Radio should not be the concern of the ARRL. The ARRL should only use its resources to encourage the wise, proper and enjoyable use of our radio frequencies. In order to do so, there must be some form of meaningful licensing requirement. We have learned from the CB fiasco that if we lower or eliminate licensing requirements it will result in chaos and the eventual uselessness of the band. We have learned from the no-code licensing in Amateur Radio that those who truly have an interest in Amateur Radio will make the effort to upgrade. Already in many of our major cities, the Two Meter band is already little more than an extension of the Citizen's Band.

"I want to be elected as a Director of the ARRL in order to give that organization back to its members. If the paid ARRL employees will not support the retention of the Morse code requirement, according to past resolutions of the ARRL's Board, then I will make every effort to terminate those paid employees.

"I urge that FISTS members run for ARRL elective office in each Division and Section. I respectfully request the support of FISTS members in the Great Lakes Division. Joe Falcone N8TI"

If any other FISTS member decide to run for a position in their districts please let me know about it so we can keep the membership informed.

CW TRIVIA

by Roberta J. Barmore, "RJ," KB9GKX Most of us are vaguely aware that many Interna-

tional Morse prosigns and common abbreviations came over from landline telegraphers. But the details are often mysterious and some of them may surprise you.

Starting with "The End"

The prosign for "end of transmission," _SK_ (or VA for the pro and military ops) seems related to nothing but it has a close cousin in the press service. To this very day, news writers put "30" at the end of a story or article to indicate the end. They picked it up from press ops, who used "30" at the end of a transmission; being landline boys, they sent an American Morse 30: didididahdit daaaah. As press (and other) landline types moved over to radio and the Continental code, they took their old familiar procedures along. Over time, the extended-dah Morse zero became a standard-length dah and the whole was sent as one unique symbol. So the next time you hear some op lean on the key at the end of _VA_, he or she might not be a lid, just an old-time landliner!

ES or &?

The familiar shorthand for "and," es, is not borrowed from one of the Romance languages of Europe as is often said. Landline ops had developed a separate symbol for the ampersand (&), dit dididit. The sound_came over to radio, but most of us still copy it "es." If your handwriting when copying with a stick is as bad as mine, it looks about the same.

Expletive deleted, or the story of punctuation.

Originally, telegraph code had no punctuation. Most of it was developed on the spot as the need arose, some of it quite by accident. The early landline ops got a reputation for profanity; many of them were paid by the number of messages sent and received each day, and a mis-sent or mis-copied word often as not prompted a "damn" from one end or the other, followed by the last word received correctly. With the need for speed, it quickly became "dn." Management having taken a dim view of hard language, even that was written as "?" when copying, and thus comes the American Morse interrogative symbol, dahdididahdit. It didn't cross over to radio directly — it is almost as if someone failed to shift their typewriter, for we now use DN for a slant bar (/).

In American Morse "period" was originally spelled out, but soon only the last three letters were sent and even was shortened phonetically to just "ud," dididahdahdidit. It was widely used in early radio, later

supplanted by a new landline version of "." didit didit didit, but the Continental _AAA_ was adopted by treatv in the 1930s.

IMI_ being such a handy symbol and the question mark having been lost to a nameless typist, it became our "?"

One of the characters Continental code didn't get in any form from the wire gang is "!" For some reason, no character has ever been adopted for the exclamation point. Perhaps they figured we were excitable enough already? On the "Boatanchors" CW net, I often use the three double-dits landline period for "!" Copied as "III," it looks about the same as "!!!" It is a bit much but seems to work.

Best Wishes, Love and Kisses, & Other Popular Numbers

"73" and "88" (along with 4, 5, 25 and 30) were used from the very early days of landline. 73 is probably the most subject to abuse; it has meant "best wishes" from the beginning and the commonly used "73s" is redundant.

"88" has a more interesting history. While us YLs used it among ourselves as a less-impersonal substitute for "73" prior to the invention of "33" (about the same time YLRL was founded) and it has served perhaps more aptly in more than one radio romance, the very nearly all-male fraternity of landline ops didn't mean it in so nice a, way. Applied to ops who were thought too fussy over time-wasting niceties, the original implication is probably best rendered for a modern audience as "wimp!"

The other number codes are not widely circulated. A compilation of rail telegraph usage in Tom French's "Railroad Telegrapher's Handbook" (Artifax books, 1991) and information from the Lewis Co. Book, "The Telegraph," indicates that "4" means "Where shall I repeat from" (still used in radio), "5" is "Have you anything for me?" while "25" meant "busy" on commercial wires. (Rail used "25" to indicate highprecedence traffic, and "22" for "busy").

Lid Revisited

The usual derivation of "lid" is that some landline ops used tobacco cans to get a more distinctive note from their sounder in crowed operating rooms, lifting the lid varying degrees to get a sound they could pick out of the multitudinous din, and were derided by the old-timers. I have always found that tale a bit fishy using a tin can as an acoustic amplifier seems to have been pretty common. One source suggests the term is an abbreviation; an op who couldn't keep up on a fast and busy circuit was often "lifted" and placed on "way" wire where the going was easier. "Lifted" boiled down to "lid" and if an op was lifted several times, those down the wire asking where he was would be told "lid agn" in the landline shorthand. This became just "lid," and implied a poor operator as it does today.

Many a hapless amateur lid has encountered a Q-signal not found on the official list: "QLF?," "Are you sending with your left foot?" But a clumsy Morse op faced even more embarrassing questions from his wirechief: "How come you're sending with snowshoes on your hand and the key screwed to the ceiling?" or "Why is it you send by holding the key between your knees and squeezing them together?"

Lost and Found

After the Continental or International Morse Code was officially adopted for radio by treaty, most landline symbols either faded out or were "fitted in" to the standard code. One has managed to survive unscathed: we still use the American Morse C in a manner very similar to that of the landline telegraphers. Checking to see if there was traffic on a long common line at a current too faint to actuate his relay or sounder, the landline op would send didit dit, C. And so do we, though it's become all too rare. Even when sent, it's often a prelude to a long series of "V V V N3 TEST" and extended key-down time — I thought modern rigs didn't require much tuning! Must be the antenna tuner.... It's either that, or somebody's wearing snowshoes and has the key tacked to the ceiling.

(Sources: "Dotty Dots and Dashes," Radio_June, 1940; various filler from CQ_, 1950s issues; "Telegraph Codes And Useful Station Information," undated single-sheet handout (late 1930s), Western Union Telegraph Co. in cooperation with the ARRL; "Railroad Telegrapher's Handbook," Tom French; e-mail correspondence from James Haynes).

Our Web Page

Fellow FISTS:

First, an introduction... I am Bill Myers, KK4KF, member #2390. I have been a ham since 1986 and work almost exclusively QRP CW. I spend most of my on-air time on the 40 meter novice section of the bands. I really enjoy convincing these newer hams that there is more to contacts than name/qth/rst. And, I've met a number of our members on this band, apparently doing the same thing...

I am also the keeper of the internet webpage for the N.A. FISTS. Many thanks to Lee, N9NVV, for the harddrive space on his system for this page.

What is available on the homepage? Many things!!! You'll find out about the organization, how to join, pictures of the patches, pins, and stamps. Membership

lists are available for searching or downloading. Information of our "contests" and "events", as well as rules when I can get them for posting. A copy of the last CW message sent out on MARS is there as well as the last message sent out from NMN at Chesapeake Bay. I'll be adding a copy of the Keynote for nonmembers to view as a sample. The current issue of the Keynote WILL NOT BE put on the homepage.

You can also download an application form (Nancy has indicated that many of the current applications are from the homepage). Member internet homepages are linked from there and a list of member e-mail addresses is available. The CQ Magazine article about FISTS is posted. The How-Do-I box from page 2 is also on the homepage.

Picture pages of our members are also posted on the homepage. If your picture was sent out in a Keynote, it is posted. There have already been some concerns about pictures being posted on the internet. The homepage is the "property" of FISTS and if you allow them to post your picture on the picture pages, they also have permission to post it on the internet. If you DO NOT WANT your picture posted on the homepage, please drop me a e-mail or letter stating this and I will blank the picture out.

I have received a number of e-mail requests for the homepage to be "modernized". By that I mean adding more graphics and sound(s). I have also received a number of e-mails complaining about the "colors clashing"and thanking us for not "modernizing" the page. While many of us have upgraded our computers to "state of the art" or "I got all the newest stuff available", there are a lot of our members, and nonmembers, that visit the homepage who do not have all these bells and whistles. Many users are still using 14400 modems and are only displaying 16 colors. High resolution graphics are not displayed very well on these systems and take forever to load, even at 33,600. Just like "ACCURACY TRANSCENDS SPEED" I feel that simplicity convey's more information. By keeping the page simple it appears we can reach more people.

As always, comments, suggestions, or complaints are welcome. Hope to C U on the bands. 72/73's to All Bill KK4KF e-mail <u>bjmyers@arc.net</u> snail mail: P. O. Box 178 Shalimar, FL USA 32579

Sad, but true.....

Heard on the two meter repeater:

Operator #1: How's DX?

Operator #2: I don't know, haven't seen her since the divorce.....

Ten Commandments of Electronics

1. Beware of the lightning that lurketh in an undischarged capacitor, lest it cause thee to be bounced on thy buttocks in a most ungentlemanly manner.

2. Cause thou the switch that supplies large quantities of juice to be opened, and thusly tagged, so thy days may be long

on this earthly vale of tears.

3. Prove to thyself that all circuits that radiateth, and upon which thou worketh, are grounded, lest they lift thee to high frequency potential and cause thee to radiate also.

4. Take care thou useth the proper method when thou taketh the measure of high voltage circuits so that thou doth not incinerate both thee and the meter; for verily, though thou hast no account number and can easily be replaced, the meter doth have one, and, as a concequence, bringeth forth much woe unto the supply department.

5. Tarry not amongst those who engage in intentional shocks, for they are surely nonbelievers, and are not long for this

world.

6. Take care thou tampereth not with interlocks and safety devices, for this will incur the wrath of thy seniors, and bringeth the fury of the safety officer down upon thy head and shoulders.

7. Work thou not on energised equipment, for if thou doeth Thy buddies will surely be buying beers for thy widow, and consoling her in other ways not generally acceptable to thee.

8. Verily, verily I say unto thee, never service high voltage equipment alone, for electronic cooking is a slothfull practice and thou might sizzle in thine own fat for hours on end before thy Maker sees fit to end thy misery and drag thee into His fold.

9. Trifle thou not with radioactive tubes and substances, lest thou commence to glow in the dark like a lightning bug, and thy wife be frustrated nightly and have no further use for thee except thy wage.

10. Commit thou to memory the works of the prophets, which are written in the instruction books, which giveth the straight

dope and which consoleth thee, and thou cannot make mistakes, sometimes, maybe.

Author Unknown.

Antenna Farms

If you want a really strong signal, you need an antenna farm. A linear amplifier is a good starting point, but without great antennas at good heights, you will be lost in the pile ups. Until now the expensive part of an antenna farm was the towers. A good tower can cost thousands of dollars, making it the most expensive part of the antenna farm. Recent advances in inorganic farming have changed all of this. This paper will give a short introduction to inorganic farming as it relates to antenna farms. Obviously, inorganic farming can be applied to other areas, such as high rise buildings, but towers and antennas are of more interest to amateurs and they are easier to grow.

As always, you will need the space for your antenna farm and soil condition is important. Just as you plant tomatoes and fertilize them with organic fertilizer, you will need the best seeds and the proper fertilizer for your antenna farm. Let's start with a conventional triangular base tower. To grow a tower like this, you need to find some suitable aluminum cuttings. Don't use just any old aluminum that is in your scrap pile. Just as you use the best seeds for your tomatoes, you need to be selective about what aluminum you plant.

High quality 6063 tubing with a good heat treating is essential. Plant about one inch of tubing for each 10 feet of desired antenna height. Be careful to space the cuttings carefully as the spacing will determine the size of the base and therefore the ultimate wind load rating of the tower. You might just as well use two inch diameter tubing with quarter inch walls as the increased cost over smaller sized tubing is not significant. Spending an bit extra on the best cuttings now will result in a much stronger tower later.

Not only must you be careful about the spacing, you must also be careful about the orientation of the cuttings. If they are all perfectly vertical, you will have a straight sided tower. While a tower with angled tubing will be stronger, lighter and have less wind resistance, planting the cuttings at the appropriate angle is best left to the experienced antenna farmer.

We have gotten a bit ahead; proper soil preparation is essential. A year or two before you intend to plant your tower, you must begin to fertilize heavily. The best fertilizer is 6063 shavings. The heat treating is not important for fertilizer, 6063 shavings are assimilated better by the growing tower than larger pieces and their chemistry matches the chemistry of the cuttings. You can also use beverage cans, however their chemistry is not ideal. The high magnesium content of the tops can be a problem. If you have high rain fall in your area, experience has shown that high magnesium content is often not a problem because magnesium is lighter than aluminum, rises more quickly to the surface and is washed

Plan on using at least two pounds of your inorganic fertilizer for each pound of the antenna you want to grow. Some quick calculations will show that this is a large amount of aluminum. You can fertilize every day if you are in a hurry, but once a month for a year or two should be sufficient.

Be careful to get the inorganic fertilizer deep into the soil. If you merely scatter the fertilizer on the surface, root growth will be insufficient. There is no greater disappointment than seeing a 100 foot tower blow over in the first good hurricane. Roots that reach 10 feet into the soil are required for a tower that will withstand 100 mile an hour winds. However this means fertilizing to this depth. It is difficult to fertilize that deep, but you can readily appreciate the benefit of doing so.

You might also consider adding calcium to the soil as your antenna grows to form a concrete like base. A good source of calcium is ground up, very fine, oyster shells. A significant amount of oyster shells are required, so this is a possibility only for people who live near the oceans. Clam shells from fresh water, for some unknown reason, do not provide as strong a base as one grown from oyster shells. This might be an interesting research topic.

With good fertilizer and good growing conditions, you can expect to grow a 100 foot tower in about five years.

Growing steel towers has been attempted with disappointing results. As with other plants, rust is a problem. The difference in cost of growing an aluminum tower as opposed to a steel tower is small so you might as well grow aluminum. Titanium is also a possibility.

Growing antennas, as you can imagine, is considerably trickier than growing towers. The problem is in the seeds, fertilizing considerations are the same. To grow a beam, you must first construct a small model of the antenna. An error of a few thousandths of a millimeter in the seed will have an adverse effect on the resulting resonant frequency, gain and overall pattern of the beam. Getting the gamma match correct is a very challenging problem. Growing antennas is best left to the experts.

So there you have it. If you are willing to expend some considerable amount of time and effort fertilizing your soil, are careful about the cuttings you use and if you are willing to wait a few years, you can grow outstanding towers for very little cost.

About the author-

Mark Kachel was first licensed in the late 1950's as KN9AAZ and then K9AAZ. He currently has an extra class license and his call is **NØOKS**. When interviewed about this article. Kachel said "Anyone can do organic farming. I thought it might be interesting to see what could be done with inorganic farming. It certainly does not require a green thumb."

The Traffic Hound by Pete K8OUA

Faithful readers of the Keynote will note that I've renamed this column. I want to move the emphasis away from the FISTS Slow Net to make it a general traffic column. Specifically, a CW ops traffic column. More specifically, a FISTS CW ops traffic column.

Let me start off with a statement that "I think that Email will be one of the greatest innovations to hit mankind in its history." OK, ok, that might not be that profound a statement, but Email has already changed the world dramatically within the past few years. Imagine what awaits us twenty years from now! Imagine the world of communications in only two or three decades. OK, so what's the point?

Everyone knows we're in the midst of a revolution. There will be dramatic changes to our lives because of this revolution. Well, I just want to state my feelings publicly, here. I believe that hams are using Email and the internet too much and too often, to the detriment of our great service and hobby. Oh, no, you say, not another Luddite eager to turn the world back to the 1950's or before! No, I don't believe I am a Luddite, nor do I want to turn the world back! Well, if I could I might, I'd love to be back in the fifties knowing what I know now, but with a young man's face!

No, I am a keen user of the internet, own three different Email addresses, and use two of them extensively. I have a hard enough time meeting Nancy's Keynote deadlines using Email to send these articles, if I had to do it by snail mail I'd never get anything published. But, I still believe that we hams are tending to use Email too often simply because it's easier. While it may be easier, other ways often serve our purpose better.

We had some birthday notices come through the FISTS Email list, suggesting we send an Email message to a member wishing him happy birthday. A great gesture and I'm sure he appreciated it. But did it really serve our purpose as an organization? I wonder how many of us even thought of using the National Traffic System by putting a message into one of our traffic nets wishing this member a happy birthday. Imagine what would have happened to the local nets if, say, fifty messages came to this fellow's address wishing him a happy birthday. This would have shaken up the net considerably. More importantly, it would have given traffic ops across the country practice that they certainly could use in forwarding and delivering traffic. Nor is this the only example of such an overuse of Email. Most of us receive Email messages that could easily have been sent via the traffic nets. PAGE 20

Yes, I know that sometimes you need to say things using more than just the twenty-five words that an NTS radiogram allows. Or, you may want the limited privacy that Email provides. OK, when that's the case, use Email! But, what about the times that require much less verbiage or privacy? What about the article you read in the Keynote that you thought was so great? Couldn't you send a quick NTS radiogram to the author expressing that sentiment? We just don't do that for some reason.

Many, probably most, Old-Timer hams have never sent a message to anyone using the NTS. Yet, traffic handling was the foundations upon which amateur radio was built. It is the reason our parent body is called the American Radio RELAY League. And even today in this world of technological magic, people across the country still receive warm and welcoming messages from local hams. What's that you say? You don't know how to do it? Well, you didn't know how to send Morse at one time either, but now you do.

How about trying this -- pick out someone, anyone, a friend or relative living across the country, a new FISTS member, or me! Find the person's address, and, if you can, his/her phone number. Write him a message of greeting. Doesn't matter what, just a message telling him that you are thinking of him. Then, put it into the system. What's that you say? You don't know how to find the address and phone number of the person? How about the internet? Go to Yahoo and search under "people search telephone". Put in the last name and city/state, and you may find out the individual's address and phone number. My address is Pete Kozup, K8OUA; Warren OH 44481; Phone 330 847-0975. Put it into a net and send it on its way.

Oh, you don't know any nets? Or, you're worried about flash traffic handlers and what they'll say to a novice? Well, bring it to the FISTS Slow Net, 3.682 MHz at 9.00 PM Eastern Time any Tuesday or Thursday evening. Give the message to me, and I will help you send it out, and I'm very gentle!! Sure, this is more complicated and fussy than Email but I can guarantee you that it's also more fun and satisfying. And, it sure as heck does a lot more good for the mode we love than sending it via Email.

Next month we'll talk a bit more about writing messages and getting them into the system. If you have the time, send me a message — I don't care what it says, and I hope to see you on the nets. 73, es ARF, Pete K8OUA (I love getting traffic too — My phone is 810-797 5.388, street address 5450 Diehl, Metamora MI 48455 Nancy Kott WZ80) IB NEWSLETTER ISSUE 7 1997

FISTS CW CLUB NEWSLETTER

AMATEUR RADIO LICENSE PLATE FEES

This report was compiled from data given to ARRL HQ from ARRL State Government Liaison volunteers.

STATE INITIAL/RENEWAL FEE

Alabama* \$3/3

Alaska* \$ Free/Free -- General or above: \$20/30 -- Novice or Technician

Arizona \$25

Arkansas \$2 -- Private passenger vehicles only

California \$21/none Colorado \$2/2

Connecticut \$12/Free -- Issued for pass commercial, combination, camper or motorcycles; processing= 9 weeks

Delaware* \$ 10/Free

Florida \$ 5.00/1.50 -- Plus: service fee 2.50; postage fee 1.30

Georgia \$20/free -- "Amateur Radio" listed on tag; Same cost as vanity plates; Fixed five year cycle; must at beginning and every five years; May to July only order period; Much more expensive than surrounding states; Fee also applies when license plates are remade every 7 years

Hawaii \$10/5 -- Must apply through county Civil Defense office, Takes 4-8 weeks

Idaho \$5/free

Illinois \$ 3/free – "Ham Radio" appears on plate Car, truck or motorcycle only; If driver has ham tags, may legally use

a headset; special brochure available

Indiana \$ 2/2 Iowa* \$ 5/5

Kansas \$ 1/1 -- Passenger or trucks; Same call sign/tag permitted on cars and trucks

Kentucky* \$25/25

Louisiana \$20/20 -- Renewal every two years

Maine \$15/15 Maryland* \$5/5

Massachusetts \$20/20 -- Ham tag fee is half waybetween regular plate registration of \$20 and the vanity plate registration fee of \$70; Plates all expire November 30; Plate registration and vanity plate fee of \$70; Processing time is 8 to 12 weeks; passenger vehicles only (law pending to include other types of vehicles)

Michigan \$2/free -- Novice operators not eligible for ham plates; Only people with ham tags eligible for a permit to own a ham rig capable of receiving police frequencies

Minnesota \$ 10/free -- Can have plate on second car with "dash #"

Mississippi \$15/

Missouri \$20/20 -- Affidavit required stating that Amateur holds an amateur license

Montana \$ 5/ -- SGL is state legislator; Ham tags issued only to "conditional"; Tags expire Dec. 31

Nebraska \$5/5

Nevada \$25/free -- Plus usual registration fee New Hampshire -- Plates not available in NH

New Jersey \$10/free -- More than one car can use a hamcall (eg. W2WEC-2)

New Mexico* \$ 3/3

New York \$11/5 --More than one ham call can be used, but must be altered (KB1HQ-1)

North Carolina \$10/ --Bills currently in House and Senate to raise the fee to \$10.00 each year

North Dakota \$ Free/ Free
Ohio \$ Free/5
Oklahoma \$ 2/2
Oregon \$ 7.50/free

Pennsylvania \$ 20/free -- Request for multiple plates (WA3IAO-2) pending

Rhode Island \$ Free

South Carolina \$ 1/1 -- Deadline: July 1 and plate is valid starting Nov 31

South Dakota* \$ 2.50/2.50

Tennessee* \$ Free/Free -- Must be a member of RACES or ARES; Proof of above is required; Multiple tags may be ordered (e.g. WA4VZQ, WA4VZQ-2, WA4VZQ-3, etc.) Tags say "Emergency" in addition to the call

Texas \$ 2/1 -- Can have the same plate on multiple vehicles; Must have transmitting equipment in vehicle; Title

need not be in vehicle; Plates available only for cars and light trucks
Utah \$10/none
Vermont* \$15/15

Virginia \$ 1/1 -- Amateur equipment must be kept in the vehicle; Amateur must own the vehicle

Washington \$6/free

West Virginia \$5/ -- All plates expire July 1

Wisconsin \$10/free Wyoming* \$4/4

NOTE: Most states require a copy of an FCC amateur license as well as proof that tax has been paid on the vehicle. They also require that the title is in the ham's name. The license fees, in most cases, are in addition to the usual registration fee.

^{*} The asterisk indicates that the information may not be up-to-date.

FISTS Spring Sprint by Pete Kozup K8OUA

The Spring Sprint saw some strange things happening! Almost every station that sent in logs complained about the conditions, and this writer was one of them. Conditions that day were not very good, noisy bands and signals that couldn't seem to bounce off the backyard pond, let alone the ionosphere.

I kept wondering, where are all the FISTS out there? Why aren't more stations participating? It seemed that the bands were noisy, but not with FISTS signals. Yet, if you accept these, how do you explain a winning score that doubled previous winning scores?

How do you explain a higher turnout of logs than in any previous Sprint? And, as usually happens, the comments by those participating were very favorable. It was another fun event that had 36 logs sent in from every call area except the 3rd call area.

Incidentally, to those living in God's country up north, this is a North American Sprint. VEs are able to send in logs too, you know. Perhaps one day I'll drive to the border, set up a rig and get some VE participation in the Sprint. C'mon gang, this is a fun contest, and it would be nice to get some Canadian logs in.

One neat thing that happened was that we got some good DX participation, and some DX logs sent in. Two Russian contesters, Vlad UA6JD (FISTS #1385) and Victor RA3VY (FISTS #1110) both sent in logs, as did Les G3VQO. Thanks fellas, we need to come up with ways of getting DX FISTS involved more -- perhaps this should be a free for all like the CQ WWDX test in which FISTS from everywhere can work other FISTS from everywhere else. As it turned out, this is what happened, to the benefit of all.

OK, here are the results — no question at all about the winner — John, K4BAI, compiled an incredible 15,260 point total. His actual total was even higher than HE had figured, because he did not give himself multiplier credit for each DX station he worked. John had a total of 96 contacts for 436 QSO points on 15, 20, and 40 meters, with 35 multipliers!! Great job, John!! John's total score almost beat the combined scores of the next three places, and these guys were no slouches themselves.

Ed, N2ED (great call!!) in his first Sprint, scored a very good 6,399 points, with 51 QSOs for 237 QSO points, and 27 multipliers. Ed will be one of the ones to beat next Sprint if he can do this well on his first try.

Third spot goes to Dan, W8EQA, bringing Utah to the masses with a score of 4899 points. Nice result, Dan, especially considering that most FISTS are back east and a long way from you.

Special honorable mention to Brian, W8BL, whose 4628 points earned him a fourth place finish, to Josh, AE2L, with 4480 points for fifth place, and to Al, WA0FAX, whose 4324 points earned him sixth place.

Unfortunately, there were only two QRP entries, both of them from the great state of Ohio. K8OUA with 1300 points, and K8UCL/QRP with 376 points carried the banner for the QRPers. Where are the rest of you peanut whistle guys?

I've been acting as the coordinator for the FISTS Sprints since they started and have enjoyed it over the years. But, it's time to hand over the reins to someone else. Tom AC5JH will be looking after them in the future. Thanks to all those who have participated, and a special thanks to those of you who have sent in logs. Hpe CU in future Sprints. 73, Pete K8OUA

Comments: "Just returned home from vacation and missed the first couple hours . . . sure "Worked most of the FISTS that I heard. sounded nice hearing that 'CQ FISTS' " K4TXJ; QRO people . . . don't forget to listen extra hard for us little QRP guys." **K8UCL**; my first entry and I had a great time. My biggest thrill was having Nancy, WZ8C, answer my CQ "Was on 21058 and 28058 at "Bunchafun! C U next time" W8EOA; on 40m." N2ED; 1800 and 1900 . . . what's the matter, no antennas for those bands, or just a case of the Solar Cycle Blues?" AA9KH; "Thought I'd send a log . . . just to show that we're listening . . . over here in Europe. Conditions were very poor . . . but thanks to the two guys who managed to "Sri I was such an eager beaver — starting early HI – pull me through the noise." G3VOO; forgot D.S. Time, but found out ... and waited the hour." WO8E; "My first contest with My new CW filter made the difference this time, and I FISTS. I can only do better!" NOOKS; added 18 FISTS to my Century Award log. Thanks! KQ6ES; "Had very bad condx on bands "Nice little contest . . . called CQ in the at my QTH. Hope to do better next time." WB2EXI; 40 meter novice band for 15 mins. and gave up." WAOFAX; "Enjoyed my first sprint as FISTS member — conditions weren't that $good \dots$ but worked almost every station I heard. Maybe outdoor antennas would help, HI!" WA2VQV; "Great contest — just the right length! "I only had about twenty minutes to operate . . . but . . . here it is." HI HI" KE4ZQD; "Great sprint. I only got to spend 1 hour in contest. Had lots of fun though. Looking K8FN: "Poor band conditions, 20 and 40 meters only bands open, forward to Fall Sprint." **KF6DCU**; but still had fun." NEOC; "Had a good time and worked 15 new FISTS members towards my second century award. I finally got a chance to work WZ8C, Nancy . . . " WA2BQI.

SPRING SPRINT SCORES

<u>Call</u>	QSO Pts	<u>Mults</u>	<u>Total</u>
K4BAI	436	35	15260
N2ED	237	27	6399
W8EQA	213	23	4899
W8BL	178	26	4628
AE2L	224	20	4480
WA0FAX	188	23	4324
NE0C	167	22	3630
UA6JD	124	24	2976*
AF4NC	183	16	2928
KT4KC	135	21	2835
N1PT	129	20	2580
WA7YYY	138	18	2484
KQ6ES	154	15	2310
NOOKS	139	16	2224
K5JAZ	124	17	2108
WB2FXK	130	15	1950
KE4ZQD	114	14	1596
K5SO	112	14	1568
K8UGL	97	16	1552
WA2BQI	100	15	1500
WO8E	110	13	1430
K8OUA/QRP	100	13	1300
WA2VQV	95	12	1140
N1VWD	87	13	1131
AC5JH	86	12	1032
KC5GXC	81	12	972
AA9KH	72	12	864
K4TXJ	69	10	690
WB2EXI	72	8	576
KC6DCU	52	9	468
K8UCL/QRP	47	8	376
KB5VTB	37	8 7	296
RA3VY KE8SX	31 35		217*
K8FN	35 15))	175
- '	15 15	5 3 3	45 45*
G3VQO	13	3	4 5 [↑]

*Not all QSOs included at least one North American station.

Hints For Finding FISTS On The Air by Bud WA2BQI

I usually operate after midnight, as I am working towards the new W.A.S. FISTS award, and I find that this is the best time to find new states and DX FISTS. I now have 36 worked and 36 confirmed by QSLs, through the FISTS QSL BUREAU. I also am working for many other awards and find this is a good way to get what I need, so I check each FISTS card when I get them for counties, prefixes, grid squares, ITU, and CQ zones. FISTS almost QSL 100 percent. As far as ideas on working FISTS members I simply call CQ FISTS on 7.058 and do alot of listening. I always hear a few stand-bys working this FREQ. and I usually jump in after they

finish there QSO if its a new FISTS for me.

The regulars that I listen to are **W6DDB-CA**, **AC5GP-TX** and **WA4KQ-IL**. This gives me a big area for working new states. I guess you might say its not the SP method, but I call it working the piggy back method.

Hey, you never know, by calling CQ FISTS who you will work. I have worked a DL6, CM2, KP4-two QRP stations, a SSB dx station who switched over to CW and told me I was causing him QRM. I told him he should stay on CW and join FISTS instead of SSB QRM on our CW freq. HI HI.

I've operated CW now for 40 years, and sure hope CQ FISTS dose not sound like CQ DX by my fist.

You might start working contests, if you don't already. After you finish simply check the calls in your log against the lists that Nancy WZ8C sends in the KEYNOTE for members. I've picked up many this way. The best contests to work for this are MARC, QST SS, Field Day, CQ WPX.

I also check every QSO that I have against these call sheets, as you usually don't always give your FISTS NR out during an average QSO.

In the last 5 weeks I have worked 51 new members on 40 meters and have received 22 QSLs by the bureau, run by W8BL (nice job). Who says QSLING is dead? It sure isn't among FIST members.

The sure method of working new members is again simply calling CQ FISTS, and listen. I have worked them on all over the lower part of the 40 meter band. If you're interested in DX FISTS give out a call around 7.027 plus or minus. It is worth 2 points to get a DX FISTS.

The Novice band might be a good place as well because the old timers or elmers like helping the novices with the code, and you might find a few new members hanging around there. I find that for some reason Sunday night at around 0100Z - 0300Z is a great time for finding new ones on or around 7.058 khz. One night I gave out a CQ FISTS call and had six members come back to me at once. I worked all six one at a time, it was great, I thought I was in a DX pile up caused by me. HI HI.

Good luck working new members and hope to meet you on the calling freq for FISTS 73 Bud **WA2BQI**

FINAL

LATE BREAKING NEWS:

World Radio magazine is reinstating their CW Column, which will be written by Yours Truly! The CW column will be printed bimonthly, starting with Sept or Oct. If it is well received, it may go monthly. I am just thrilled about this and find it very encouraging, particularly in light of the apparent bias of CQ magazine. I urge you to support WR. Please take a moment to drop them a note or Email and let them know you are interested in CW and thank them for adding a CW column. Their address is 2120 28th St, Sacramento CA 95818. The Editor's Email is kb6hp@ns.net 73/88/33 Nancy WZ8C #0379

WAS RECORD SHEET

STATE	CALL	NAME	BAND	FISTS NUMBER	DATE
Alabama					
Alaska					
Arizona					
Arkansas					
California					
Colorado					:
Connecticut					
Delaware					
Florida					
Georgia					·
Hawaii			-		
Idaho					
Illinois					·
Indiana					
lowa					
Kansas					
Kentucky					
Louisiana				<u> </u>	
Maine					
Maryland (D.C.)					
Massachusetts					
Michigan					
Minnesota					
Mississippi					
Missouri					
Montana					
DACE 24	•	FIRTS CIM OLI	LID NIEVNOLE	TTED ISSUE 7	1007

Nebraska					
Nevada					
New Hampshire					
New Jersey					
New Mexico					
New York	,				
North Carolina					
North Dakota					
Ohio					
Oklahoma					
Oregon					
Pennsylvania					
Rhode Island					
South Carolina					
South Dakota					
Tennessee					
Texas					
Utah					
Vermont					
Virginia					
Washington					
West Virginia					
Wisconsin					
Wyoming					
Applicant Name_AddressQRP (5 watts or le QRO (over 5 wat	ess)OR	b t a	hereby apply for the below, I certify that wo-way CW QSO's ccordance to the rule VAS Award	theses contacts with FISTS me	are legitamate embers made in
Callsign ISSUE 7 1997	FIST		ignature		PAGE 25

International Morse Preservation Society







Sec: E. (Geo) Longden, G3ZQS. 119 Cemetery Rd., DARWEN, BB3 2LZ, England. 01254-703948 Packet: G3ZQS@GB7HVU. E-Mail: fistl@compuserve.com or morseman@airtime.co.uk

OFFICES

QSL Manager: G0FRL. Bob Lowe PO Box 190. BOLTON. BL1 4UL. U.S. Rep: WZ8C. Ms. Nancy Kott. 5450 Diehl Rd., METAMORA, MI48455 PRO: G4YLB. J.A. Welsh 3 Minster Cresc, DARWEN, BB3 3PY CONTEST MANAGER: GM4BAE Northbrae, Brookfield Cresc, STRANRAER, DG9 0HY NETS
Sunday QRS 0900 (loc) 3.575 2E0AJS
US 0100Z on 14058
Tues: GC0IPX/P 1930 ON 3.558 (+/-)
Wed: US Net 0100z on 14058
Thurs: QRS 1900 (loc) on 3575. 2E0AJS
DX 14/21/28.058 on the hour for 15mins
Pse keep watch all Novice allocations
UK Net Controls use GX0IPX/P

Up-dated listings may be obtained from HQ. SAE plus current stamp. Lapel Badges,£1.50 incl. Fabric patches £2.50 incl. QSL Cards £5.00 per 100 or £8.00 per 200 (UK and EU pse add 50p for p/p. DX members - on advice.

GREETINGS

Hi People. Thank you for your patience in regard to the missing 'June' Keynote. The cause of this of course was two weeks spent in the US and my attendance at Dayton.

Dayton itself was great. The weather was superb over the whole weekend and we had over 130 FISTS members signing in or joining. As usual, Nancy and her charming Mum put up a grand display on the booth. I arrived to find a redhead where I expected a blonde but otherwise all was as in previous years and it was a rare occurrence when the booth did not have a crowd of visitors chewing the fat.

During the weekend, Al Winkler conducted various forums one of which was devoted to the cry for a no-code licence in which Nancy and W5YI ran a head to head and viewpoints were expressed from individual members of the audience. I could have been famous here as the camera was focused on the founder of FISTS but unfortunately I had to exit for about 2 minutes for a breath of air and a drink of water so the only thing the camera saw was an empty chair. T'would have made no difference since the debate was a domestic one and it would not have been right for me to voice any opinion and though it must be admitted that although there was an expectedly large representation of the club present, the forum hall was only one third full and FISTS was a tiny percentage of all those attending Dayton so the small handful of folks who were pushing for a code free ticket could easily have been swollen to a majority if the feeling had been there. The day undoubtedly went to Nancy who spelled out the danger signal by dressing in a fiery red. Hi.

I bumped into G3TUX in the exhibitors lounge but that was the only time I saw him. Dunno where you were exhibiting mate because I failed to find any reference in the guide...

It may have been a surprise to many but there were a number of booths dedicated to CW including Vibroplex and the odd thing is that these traders with keys, keyers and other CW oriented goodies were never shy of interested visitors.

Charlie ran his usual station with (I think) a little more success than hitherto because of a different antenna arrangement but the 'slinky' still left a lot to be desired. As a contrast, Brian fitted a bug catcher to the rear end of his pickup and at the motel, we ran a TS520 with car batteries, connecting the antenna socket to the whip via a length of coax squeezed under the door There was never a dull moment. Hi. Incidentally, testing this setup from the home location was causing Brian a few headaches until I pointed out that the coax would be better mated with it's receptor on the antenna than lying on the ground. It takes all sorts folks doesn't it?

Vibroplex dug up a prototype iambic which was passed on to Brian W8BL to 'sort out'. Viewing it, there seemed to be something wrong and I think that the first mistake was trying to support both paddles on a single fulcrum which meant distorting the "dash" paddle and having its lever run immediately above that of the dot leaving precious little space for weights. There

is no way that this or any other mechanical iambic is ever going to replace the iambic keyer and paddles which we have come to regard as standard but the concept is of interest and will no doubt continue to be so.

Brian and I left around noon on Sunday and predictably (according to him) the weather turned cold and murky as soon as we hit the Michigan border and we left Ohio still bathed in sunshine. Michigan is at least four and possibly six weeks behind the UK in terms of seasons and the fully clad trees which I left behind were replaced by straggly copies dressed in their underwear. I enjoyed many hours on the Corsair and worked well over 100 members during my stay. The Ford museum was a surprise. A string of past Presidents cars was on display and other Ford oriented paraphanalia as you might expect but there were also ancient railway engines and rolling stock, tramcars, horse-drawn buggies and fire appliances alongside some exceedingly rare amateur and general radio kit. I was transmogrified. Domestic and farming appliances, a complete coopers workshop, gigantic stationery steam engines with platforms for the public... well worth a visit if you ever get to Detroit.

After getting more and more sluggish over the past 12 months and particularly in the last 6 months, curiosity got the better of me and when the Distric Nurse came to take Ivy's BSC I asked her to take mine. It turned out to be in excess of 12.5 and I trooped off to see the plumber who confirmed that I was diabetic. I expect to be on some sort of pill after I see him again in a couple of weeks but having mentioned this on the air, I got two consecutive contacts who, in effect, said "welcome to the club". GOVTN and G4MSR are just the first and I would expect that there will be a far greater number than would have been envisaged.

FLAMES

With apologies to those who do not play on the internet, this is netspeak for a letter attacking someone. Seemingly, an individual WA6VSE, has been distributing flames calling for official investigation into the funds of both the ARRL and FISTS. He seems to think we are some sort of subversive organisations with political agendas and since he never sees a financial report suggest that the IRS (Inland Revenue Service) should take an interest. Hmmm.

AMATEURS DREAM

Received a super e-mail from Ralph, ZL2AOH concerning the Quartz Hill site near Wellington. The document included some photographs of the site but I do not have the expertise to isolate these for reproduction.

TheQUARTZ HILL amateur radio station is on Makara farm, a mixed stock operation on the hills above Makara Beach, west of Wellington. Quartz Hill is designed for amateur radio DX and contest activities plus shortwave listening - on all frequencies from VLF through HF.

Until late 1996, Radio New Zealand operated a receiving station at Quartz Hill, listening in the medium and shortwave bands and providing material to State broadcasters.

Electricity Corporation of New Zealand (ECNZ) is the new owner and plans to eventually build a wind farm on the land. In the meantime, Wellington Amateur Radio Club Inc

corporated society encompassing Branch 50 NZART) has negotiated a lease with ECNZ to access the property and use the remaining former RNZ facilities for amateur radio.

Quartz Hill features: 100 acres of antenna farm including longwires, vee beams and rhombic beam antennas.

A purpose-built building that includes 5 operating rooms, 2 sleeping rooms, kitchen and bathroom with shower.

Low levels of manmade RF noise.

An elevated location (300m ASL) with good low-angle takeoff in all directions.

Easy access. Only 30 minutes (max) drive from central Wellington city on sealed roads.

A Quartz Hill User Group has been formed for amateurs or shortwave listeners who are interested in using the facility. Only members of this group may use the station facilities. The one exception is club-sponsored events, when any club member may use the facilities.

THE CLUB KIT PROJECT

Nancy includes the following info in the NA memo: Last month, I announced our Club QRP Project Kit. I was under the impression that the kit was going to be available at Dayton, but I never found out where the representative with the kits was located - or if he was there at all! Many FISTS came by our

FISTS booth asking about the kit, so I know the interest is there. The kit, the NW series, is available from Emtech, 3641A Preble St, Bremerton WA 98312. Phone is 360-415-0804. Email is

rovgregson@aol.com.

It is available in your choice of 80,40,30 or 20 meters. The 80 and 40 meter version include coverage of the Novice bands. Features include: tuning from a 8:1 vernier variable capacitor, variable bandwidth crystal filter, full smooth QSK, internally adjustable sidetone level, full QRP gallon, internally adjustable down to milliwatts, and features a FISTS logo on the front. The painted/silkscreened cabinet is 6.5" x 2.5" H and 5.5" D. The price to FISTS members is \$120, including cabinet, hardware, filter and shipping. Specify which band you would like.

For EU members interested, there will perhaps be additional shipping charges. Suggest you ask first either by e-mail or phone.

NANCY AND THE DEBATE
The Debate about "should there be a CW requirement for HF privileges" against W5YI was a big success for Our Side! I had many people come up to the booth on Sunday, say that they saw the debate and wanted to join FISTS! W5Yl told me the next day, that it was the "biggest blow to his ego that he's ever had" - all day long people were coming up to him and telling him how they disagreed with his anti-code requirement stand I want to give a big Thank You to Peter O'Dell. Peter is a FISTS member and a hypno-therapist. I called him and asked him if there was something he could do for my stage fright. He did a session of some stuff called NLP with me over the phone. It's not hypnosis, but a 'positive thinking' imagery type thing. The results were amazing! I was filled with confidence and didn't hardly even have butterflies! Peter has code tapes using these principles - I can't vouch that they will work as well as the NLP did for my stage fright, of course, but they would be certainly worth looking into. His address is Alternative Arts 261 9th Street South, Naples FL 34102 (800) 425-2552.

MEGS

GM4HYF reminds me that he has been sending computer generated practice Morse in the form of "speedruns" under the GB2CW banner for over a year now at speeds of 15, 18, 20, 25, 27 and 30wpm on a frequency of around 3257KHz from 2045 to approximately 2230 local time each Thursday evening. Free cassette tapes of practice Morse are available to all FISTS members and they find that they are being asked for the tapes more and more by operators who wish to increase their reading speed and not just to candidates for the 5 and 12 wpm Morse

Many such requests are for speeds of 20wpm and up to, to take advantage of this service, please SAE or adequate return postage in stamps and a blank C90 cassette tape with a note of the speed and type of practice code required (PL & QSO, QSO, contact a pal who lived about half a mile away but nothing

only, PL with or without punctuation symbols, groups of numbers etc.) with the cassette to GM4HYF. Geo. M. Allan. 22 Tynwald Ave, High Burnside, Rutherglen, G73 4RN. George also appends his phone number which I assume is OK for publication as 046-6344567 (should this not be 0141??).

LAST SUNDAY LADDER

GS4LHI	19	38	0	310	348
GW0SGG	18	36	1	281	318
G0MGD	22	44	7	166	217
G0TBD	8	16	0	201	217
G4OOS	10	20	0	180	200
G4PTE	11	22	2	127	151
G0MRH	6	12	1	137	150
G0FVS	7	14	0	104	118
G4RBE	3	6	0	64	70
GW0PXQ	11	22	0	47	69
GOVBH `	6	12	0	12	52
G0WAS	9	18	3	10	31
GI4CBG	7	14		14	28
G0VCY	1	2	0	24	26
G0PEH	2	4	3	10	17
G0IFX	8	16	0	0	16
G0ATR	4	8			8
As of 8/6/9	97				

Again, at the top of the rankings 4LHI has produced quite a margin over Bill, GW0SGG but as has oft been pointed out, things can change pdq with a table of this nature.

LETTER FROM SWL

As an eleven year old boy John (GSWL3) was fascinated by Morse and Radio in general. He strikes a chord with yours truly who also "dabbled" at the same age.

"I was very interested in the Morse Code due to a neighbour; an old lad called Billy Reid. Billy had been through WWI and when he was demobbed he got a job with the Post Office as a Telegraphist. In those days, Wireless was just getting into it's stride and Billy loved tinkering with bits and pieces of radio equipment and he taught me to build a "straight three", a battery set with a 120v battery, grid bias and a 2v accumulator. With a speaker and 75' aerial, I was able to pick up Athlone in the South loud and clear whilst a neighbour with a 6 valve superhet could not receive it as well as I did. She wondered how I could get such a good reception from a bundle of bits which could be picked up very cheaply in Belfast's Smithfield some 25 miles away.

I learned the code and on the old set which I built with Billys help could hear a neighbour tuning in next door. I would get a series of oscillations and that gave me an idea. I had made a Morse key of sorts and connected a wander plug from one side of the key and tuned in to Athlone. When the reactance was too great, my set broke into oscillation so I tuned past Athlone to cut out the sound and hey presto! I had a ready made oscillator. I connected the positive of the HT battery to the receiver via my wandering lead and keyed out 'CQ CQ CQ de Johnny Murray. Are you receiving me'. Not the way to do it of course but I was having fun and in the middle of my keying came a knock on the front door. When I opened it, there was old Bill with his glasses perched on his brow. "Are you mucking about with Morse Code?" he asked and I was delighted to tell him of my great idea. "You will have the Post Office sending someone to investigate" he said and I was astonished to say the least. How on Earth did you know I was "Morsing?" I asked. He said he had picked me up on his receiver which I could not believe so he told me to go along to his house (three doors away) and listen to his set whilst he sent a short message. Bill Was a 30wpm man and I would not be able to read his transmission but he said "I will send slowly 'What sort of sweets does your best Girl prefer' and when you know the message you will be able to follow it". I couldn't get down to his house quickly enough and for a minute or two nothing happened and then, loud and clear, the Dits and Dahs came. I was over the Moon. Billy again warned me that I was breaking the law though I did try to

could be heard.

I managed to get another school chum interested in learning the code and he and I together with one or two other chums, went along one night to a spot called The Bankheads. It was a large grassy place sloping down to the shore and I gave my chum a copy of the code and a torch. I sent him to a spot about 50 yards away after explaining that I would flash a message to him and he was to acknowledge each letter by waving his torch. It took about half an hour to complete the message in this manner. My chum when he left school got a job on a boat sailing between Larne and Preston and in years to come I was to meet him as Captain on Ocean Liners. Knowing the Code was part of the test to acquire his Masters Ticket,"

John's story rings many bells with me though he does not appear to have succeeded in depriving his neighbours of power as I did when, whilst tinkering with the local DC supply, I blew a common mains fuse that protected our own house and three others. Hi

John. The database is constructed around callsigns and in the absence of such, SWL is used instead. GSWL for UK, DSWL for Germany etc. We append a number (GSWL3) to make that field unique.

NEW MEMBERS

	112/11	** E	
2859	HB9ZE Frank	2860 G4	UCJ Sean
2861	GW4SDO Dave	2862 G0	AZH Jerry
2863	G4YZO John	2864 G6	SQA Lynda
2865	G3JMZ Jack	2866 GS	SWL3 John
2867	G7MGV Bob	2868 G0	UIW Tony
2869	G3AQF Harry	2870 MC	AKN Gordon

QRS NET

The Tuesday evening run presided over by Bill, GW0SGG, is firmly established. There is a regular turn out of a group of stalwarts and often enough some odd visitor or two surfaces. Recent visitors drew attention to contests and felt it improper that the Club Officials were excluded. This is not so Bill, all officers and committee members are free to take part in any club activity. I think you are being mislead by my own reluctance to partake actively in the Last Sunday, Straight Key Week etc. but this is because I cannot guarantee to sustain activity and apart from that, I feel I would have an unfair advantage being HQ station. I am happy to dish out points of course but I am so busy with general FISTS business that I could not be sure of maintaining such activity.

LEICESTER CLUB

Dear FIST members,

LRS is one of the oldest radio societies in the UK (formed 1913) and now requires a move to newer premises with better facilities for training and operating - ready for the next millennium.

We have negotiated a series of discounts with hotel groups and car rental companies within the UK. Anyone who needs to hire a car or book hotel rooms within the UK could benefit from our card and make savings - up to 35% on car hire.

Companies currently with us include Avis Rent A Car Ltd, Hertz (U.K.) Ltd, EuroDollar Rent A Car, Stakis Hotels, Wayfarer Inns and Jarvis Hotels.

Together, these excellent companies offer a superb range of accommodation and vehicle hire possibilities.

It is not necessary to be a licensed Radio Amateur in order to obtain a card - it is available to anyone, anywhere around the world, or within the UK. Some Car rental companies are also offering discounted rates within the USA and Europe.

Every card sold increases funds available for new premises, equipment and training.

As the cards are taken up we expect that other companies will offer discounts, broadening the range and type of savings that can be made - these will be updated onto our new web site. Anyone / any company wishing to offer further discounts are welcomed.

The discount card has been priced at £10 (Sterling) and can be obtained using a Mastercard, Eurocard or Visa credit card (Cheques are too expensive

to handle unless they are Sterling cheques or drawn on UK cheque accounts).

We intend that this modest outlay is recovered very rapidly as bookings, and consequent savings, are made.

Our new website is well under way and contains details about LRS, its members and what we are hoping to achieve.

An order form for the Discount Card is included and can be printed off, completed and posted to us here in the UK. Subscribers should allow 28 days for delivery.

Check out - http://www.foobar.co.uk/dialin/silver/lrs

We are NOT a commercial company - we are a reputable Amateur Radio Society with ideas for the future. LRS seeks to further Amateur Radio in general and all monies raised will be used to this end.

John Alexander

Please direct any enquiries to me, John Alexander, via snailmail, fax or E-mail at the above numbers / addresses.

Anyone requiring hardcopy text on LRS Letterheads can be supplied with these via standard mail or fax upon request. With regards

John Alexander / G7GCK LLB Hons, BSc Hons Leicester Radio Society

> Morsum Magnificat



Samuel F.B. Morse

1791-1872

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EDGWARE SK EVNG

This annual event has always been well supported by FISTS members so we are looking ahead a little to Friday, 19 Sept from 1900z. The QRG is in the vicinity of 3560 and as usual, they attempt to mount special stations. Look out for GB2SKE, G3ASR and possibly G4UIZ/P so get the dust of the straight keys of yours and join the fun.

SHADOWS OF TITANIC

GW0LTU sends a photo copy of an article from the Western Mail

"When Arthur Moore told his father he had picked up the SOS distress signal from the doomed Titanic he was reprimanded

Moore senior dismissed his son's claim and realised he had again spent all night fiddling with his multifarious radio equipment.

For years he had implored his son to be fresh and alert for the early morning starts at their family run watermill at Geligroes near Blackwood. And why should he have believed his son's outrageous statement? After all, the Titanic which was in the middle of its maiden voyage across the Atlantic was considered unsinkable.

As the day progressed, word of Arthur's outlandish story spread around the village and the young Mr Moore, then in his early 20's was probably the butt of a few jokes.

But two days later, after the Titanic sank in mid-Atlantic in April 1912 with the loss of 1,523 lives, the news of the tragedy was officially cabled to London from New York. Arthur Moore's claim that he had received the SOS signal more than 1,000 miles away on his wireless equipment installed in the mill had been vindicated.

His exploits reached the press and soon he was taken on

board by a suitably impressed Guglielmo Marconi at his Marconi Wireless Telegraph Company.

An impressive model of the Titanic has been received by the leaders of Caerphilly County Borough Council when Howard Moore was present. Howard, nephew of Arthur who died in 1949 declared that the family was extremely proud of his Uncle's achievements saying that he was at the forefront of wireless telegraphy at that time. GW0LTH tells me that the mill is home to the Blackwood ARC with the special callsign GB2GGM (Gelli Groes Mill) which was last on the air 11 May.

PACTOR QRM

G3KEF (Tom) reports on the interference being suffered on 14058. My earlier information placed the offending station in the Azores but monitoring this traffic, Tom finds KDIRA (a mailbox frequently accessed by CU3BJ) comprising long lists of gear for sale including prices. KDIRA also forwards to other mailboxes in the US and blatently ignores cw already in progress. 14057.85 finds VE3HKK and K1LMJ also being logged several times in live QSO with CN8CG. Also lots of call-ins from various stations including N1URA and K1LMJ whilst CN8CG frequently calls in and leaves traffic with K1LMJ. Tom surmises that the main root of the problem is US stations and if these could be shifted, then the problem would probably end. Wonder if the US contingent could do something about this via the ARRL?

The Insect Filter A variable bandwidth filter with a very narrow bandpass. Ideal for weak signals and poor band conditions. SAE for further details and special FISTS prices to: The Haven, Lound Rd., S. Dodson. BLUNDESTON, NR32 5AT G3PPD Tel: 0502 732322

THE STRAWBERRY BASKET

GOSTR. Hi Bill. You will find more details of the kit in question within this months letter. Bill is off to Gran Canari (EA8) and the holiday chalet will be home to his QRP rig mainly on 40 and 20 metres. GOUKX Last years heart attack with bypass and Teflon patch on his ticker (does this make it a non-stick heart?) curtailed his operating for a while but he is now back onair and to avoid undue strain, will be working strictly rubber stamp style. ZL2AOH. Our prolific Ralph has completed his application for the Keymens Club of Japan award. Matching stations with prefectures was no small undertaking and aside from DXCC mixed and CW it is the only award he has tried for. Would like to include the Century amongst his targets but K7WF has thus far been his only FISTS contact. He estimates 350 years at this rate. Oooooh. GW4GCB. Peter has been 100% cw for the past 12 months mainly with his pal G4GBG and he plans a make over job on his antenna this year. Also has an eye on home brewing but her he talks of beer and not necessarily radio. Nowt wrong with that Peter. A most noble ambition! G0JZU. Ross was happy to work GB0ARM which provided him with more satisfaction than the 'Windmills on the air' event which appeared to be conducted exclusively in SSB. And, less than half a mile away, one of the latter was operating from a disused windmill. Grrr. G4BWJ. Harmonic was not invited to extend his 12 year commitment with the RAF and was only a small cog in the 10,000 comprising the tradesmans wheel. After the Minister responsible for the mass shedding lost his job, harmonic noted 'it couldn't happen to a nicer guy'. Has he removed tongue from cheek yet? EA3FWE. Jordi is henceforth recognised as EA3WC. A shorter title of course and I resist the temptation to offer a comment which may not be understood. Hi. GOILN. Hi Richard. The stuff you hear on 14080 (actually nearer 14079 though it is wide band) is not RTTY but a pactor. mail box. As far as we and most other countries in the world are 73/88 people.. stay sober de Geo

concerned, it lies outside the spectrum set aside by the bandplan but seemingly the Azores is a law unto itself. GOVQA. Julian has an interesting ob here since last year he was operating 80m on a G5RV/2 via a 'T' match ATU. Not as good he confesses as his current 80m quarter wave long wire via a home brewed 'Z' match and he is also contemplating tests with a home brewed mag loop. GOTBD. Terry is now also active /M and would welcome QSOs with fellow members. QRV between 3.550 and 3.563MHz but hastens to add that he has not yet perfected the dangerous art of sending and driving at the same time. From out of Houston, Brian and I logged a member doing just this with 16 wheels and I logged a returning FOC member who was doing it on the back roads having become bored with the challenge offered by the freeways..

G3TUX

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NOVICE ACTIVITY

I have had a suggestion that a limited version of the Century award (50 points) be made available for our Novice members bearing in mind a restricted frequency span and QRP. Actually, this would not be necessary if more of you were to scan the Novice bands periodically. I usually take a quick shufti up there myself when on 80m and put out the occasional CQ but find myself at the mercy of conditions. When the band is 'long skip', any Novice stations have to be local but this is still an excellent way of spreading the Gospel. 3770+ seems to be used also by a number of late G0 stations though it is often frustrating to find high speed cw activity mainly from Germany but also from other EU countries presumably running QRO.

ODDS N' ENDS

Found G3TTH and learned that the Leicester Club NFD station boasted no less than four FISTS members.

GW0SSG asked me for a listing on disc before I left for Dayton. This I did (on the very day before I left) but they never arrived at their destination. I suspect this is a rare event but something has gone sadly wrong because whenever such packages are sent through the post, they carry a sticker complete with return address warning that the package contains sensitive magnetic media.

If any members heard me at around 2100 on 80m on the 18th July, I apologise for my seeming lack of good manners. My patience is no more nor less stable than most people but struggling to copy a QRP signal who was barely above the noise, I was constantly harangued by a E. European station who called me consistently over the top of the QRP station despite the KN which should have told him that I was listening for a reply from the nominated station. I called him a lid and made it plain that I would not QSO him or any other station displaying such poor operating techniques. I was somewhat ashamed of myself afterwards for allowing myself to crack but there is surely a limit to any-ones patience.

Tammy's sensitive hooter came into good use when he was clearly fascinated by something in the clover speckled grass. It turned out to be a soft plastic purse cum wallet and I thought Wow... this is the day. I retrieved it, opened it up and surveyed the contents - just the remains of a blob of chewing gum, a large gap where a seam should have been and some six inches away, a lonely one pence coin. I pocketed the coin without a twinge of conscience but I still dream of the 10% cut when I find £10,000 in a paper bag. Like my visions of a one metre square steerable beam with 60db gain in the chosen direction however, the smoke has not yet settled. Hi.

FISTS CW CLUB

The following list is in two sections, one as NORTH AMERICA and the other as UK-EUROPE-ASIA

KB3 AQL LEE

DEWEY

W6 AR

Edward C. Hayes, N7CFA 2628 Lilac St. Longview WA 98632 n7cfa@tdn.com

NORTH AMERICA

CARIBBEAN AREAS **CENTRAL & SOUTH AMERICA MEXICO, HAWAII**

	, ,	ILAIOO, IIATTAII	
KF5	A	JAMES HERB CHUCK	1919
WR4	A	HERB	3078
NC0	A	CHIICK	3365
	AA	RAY	2093
KK7	AA	RAY MELISSA	2181
K1	AA	NORM	3236
KA5	AAE	NORM JIM	3257
К9	AAU AAX	BOB	2747
KB8	AAX	TONY	3289
KG9	AB	STEPHEN	2617
XE1	ABE	HUGO	3448
		FRED	1470
AH8	AC	JOHN	1259
AB2	AC AC	JOHN CAROL FRANCES GRANT GEORGE JOE	2081
K 7	ACK	FRANCES	3097
K2	ACW	GRANT	2573
KD7	ADK	GEORGE	3017
			3118
KN6	AE	SMOKEY	3128
W 6	AR.T	ROR	3202
WD4	AEV	DWIGHT	3105
KE1	AF	ABEL	2954
W8	AFI	ED	2991
- N5	AFV	ALLEN	2168
K1	AG	BILL	2728
AD6	AG	MIKE JIM	3242
KE4	AGT	JIM PHIL LEARD	1581
WA2	AHH	PHIL	1988
K4	AHM	LEARD ALEX	1550
1000	AMILIA	ALEX	2983
AE4	AI AI	DANNY VIRGIL	2444
К9	AΙ	VIRGIL	2532
N7	ΑJ	DON	2786
	AJD	KEN	2544
KF8	AK	MICK	3060
KA7	AKK	BETH OSCAR	2084
KC 4	AKQ	OSCAR	2015
VE7	ALL	CLINTON	3066
W9	ALM	BILL PHIL BOB HAL TRISH RALPH	2163
AB0	AM AM	PHIL	2364
AC5	AM	ROR	2516
VE6	AML	HAL	1930
	AMX	TRISH RALPH	1453
K Ø			1484 2908
WAS	ANC	DAN ALFIE	
			2755
K5 N3	AO AO	PAT CARTER	2138
W0	AO AP	MAC	1908
KI8	AP	GREG	2985
K5	APB	JOHN	2107
WB8	APR	JOHN	3126
KP4	AQC,	PEDRO	2548
KB7	AQD	ROBERT	3478
KC8	AQJ	BARB	2376
	* 150	חיזיים	23,0

Membership Roster

3436

3235 KC8 BOJ ED

KB2 BOY STANLEY

3391 TI5 CMA CARMELINA

1598

2556

- 1	W6	AR	DEWEY	3436	KB2	BOY	STANLEY	1598	K4	CMH	JIM	3094
-1	K1	ARO	RICHARD	1580	AB2	ВÞ	CLARENCE	3008		CNL	JACK	2631
- [ART	KEN	3456		ВРН	RICH	3169	K0	CNS	RICK	3370
- [AS			1				1			
			BILL	2164	WA2	_	BUD	2009	•	СО	\mathtt{BILL}	3119
-	AC4		JIM	3321	KC8	BQN	JAKE	2663	N3	COR	DON	3221
1	W9	ATE	JACK	2523	KM4	BR	RON	1593	И8	CPA	STEVE	2904
	KC2	AUH	HARRY	3085	W9		RODNEY	1782		CPG	BRUCE	2340
_		AUJ	JOHN	3300	KJ7				1			
-							MARK	2972	N7		BRUCE	2075
-		AUK	GARY	2779	KC8	BSC	\mathtt{AL}	2069	K4	CQ	EVERETT	2942
-	KB1	AUM	SHEILA	1599	WD8	BSG	DON	2737	N8	CQA	BUCK	2609
Т	KF4	AUM	JO HN	3088	K8	BTH	WAYNE	1465		cs	WATT	2559
-	WB0	AUQ	BOB	1905		BTM	JOHN					
		AUW		2066				1574	VA2		CORAL	2579
	1		BILL		1	BUB	CHARLENE	1749		CSF	JOE	1271
•	AA3		EUGENE	1220	N4	BV	BOB	2640	w7	CSJ	CHUCK	3214
}	KU4		DICK	2731	W2	BVK	ED	2495	KE6	CSL	TOM	2637
,	KM5	AV	SCOTT	3042	KC8	BVS	HAROLD	2091		CTA	DICK	2643
,		AVC	VIC	1742		BW		2591				
,		AVS			1		BARRY			CTI	MATT	3371
	i .		CHARLES	2480	1	BWG	DON	1015		CTW	KEN	3138
5		AVX	JOHN	2307	W7	BWI	LOREN	2475	W5	CTZ	HARRY	3239
1	AA3	AW	DANNY	2482	KB2	BWO	AARON	3145	KC8	CUD	STEVE	2986
1	KU4	AW	BEN	2674	KS4		ROGER	1403	į.	CUR	TED	3168
	WO		GARY	3310		BXE	MARTIN		l			
		AWI	ERNIE		1			2443	1	CV	SCOTT	1502
				3302		BXK	STEVE	2917	1	CVC	BOB	3324
:		AWR	FORREST	3425	WB2	BXO	FRANK	2314	KA8	CVH	JOE	2979
)	K5	AΧ	TOM	2996	WD6	BYH	ROBERT	3170	ZP6	CW	DOUGLAS	1771
	KG9	AX	RON	3296	1	BYH	BILL	3394	w3		ВОВ	2491
•		AXJ	MARTY	2668		BYP			L.			
							PETE	3410	WA6		ROB	3293
r	KI0		CHUCK	2414		BZM	BILL	2409	K5	CWR	FRED	2570
3	N8	AYQ	JIM	1230	WZ8	С	NANCY	0379	N6	CX	GLEN	3263
1	AE4	ΑŻ	RAY	1561	WR9	С	RON	2711	N8	CX	ALAN	3301
2	KC8	AZZ	PETER	3314	WB8		RAY	2739		CYG	JOE	1471
,	NC2		MARTY	1028	WJO			2910				
•							JIM		KI8		TOM	2360
	WB0		LARRY	2916	MN3		MAC	2932	N3	CZB	ron .	2392
,	KX8	В	CHUCK	2987	NEO	С	KEN	3014	WA4	CZK	GARLAND	2783
	KR1	В	BOB	3442	WC6	С	CHUCK	3360	KO	CZU	DWIGHT	2430
	KC8	BAA	JIM	2938	NN6		MIKE	3443	NU7		RANDY	1796
		BAG	DINK	2960	NL7				1			
							JIM	3452	WB2		PETER	2071
•	1	BAI	JOHN	2158	1	CAW	NATE	2664	AF7	Ð	BILL	2690
:	KC8	BAP	ROB	2931	K6	CB	CHRIS	3471	KC4	D	BILL	2709
	KE6	BAZ	BUD	2998	KA3	CBC	ERNEST	3230	WN7	D	DON	2759
1	KE1	BB	FRED	1536		CBT	DICK	3417	KC8		DENNY	3132
	KB1		LOUISE	1985	,	CC		1714	KK6			3187
'					ı		LARRY		t		DOUG	
3		BBW	DAVE	2919		CCG	DONNA	2310	WW8		TOM	3264
ŀ	AB2	ВС	JIM	2526	WL7	CDC	DOUG	2437	VE3	DA	AL	2757
	W 2	BCH	JIM	2487	KD4	CDI	SAM	2994	KG8	DA/	XE1 GEORGE	1473
	K2	BCL	GAIL	2438	1	CFA	ED	1402		DAN	DAN	3421
		BE	CARL	2581	1	CFF	CARL	3465	ł	DBR	MIKE	1972
1	AB0		JON	2474	ı	CFL	CHARLES	3248	K3		BILL	1902
Į			ERIC	1786		CFZ	RUSS	0294			VIC	2641
,	W1	BFT	CARL	1431	N2	CG	GEORGE	1006	KF6	DCU	DAVE	2398
	AC5	BG	BILL	2598	w3	CG	NORMA	2034	W6	DDB	BILL	1525
	W4	BGG	GATOR	3298		CHR		3047		DDI	PAUL	1512
•	1	BHR	JOHN	1991		CI						
:							JOE	1738		DEA	DON	3470
,	N5		GARY	2029		CIB	R AY	1922	W/	DER	ART	2023
)	KG2	BI	WARREN	2671		CIK	KARL	3422	W 9	DEW	DON	1406
1	KB1	BIC	RICHARD	2059	WB9	CIS	JOHN	0531	KU4	DF	KERRY	2959
	WA8	BIJ	VINCE	0905		CJQ	TED	2177	к6		DENNIS	3076
	AA9		TOM	2601	VA2		GARY	2578	l .			
										DF	NEIL	3328
,	W2		BARRY (DA2BM			CK	CRAIG	3367	i	DFT	GEORGE	2741
		BKC	TREVOR (VE3BMC	3033		CKL	MEL	1768	K7	DFW	ROLYNN	1983
, 1	W8	\mathbf{BL}	BR IAN	1221	K3	СКО	BOB	2483	AA1	DG	ROGER	2971
,		BM	BOB	2587		CKT	GARY	2484	KC1		DAVE	1210
	K6		STEVE	2973		CKY			l .			
•							FRED	2745	1	DIX	STEVE	1710
'	VE3		TREVOR (VE7BKC			CKX	PATRICK	2050		DIY	MILL	2798
,	W7	BMI	BOB	3144	VE3	CKX	DOUG	2900	NP2	DJ	DEBBIE	1489
	KB3	BMT	JAMES	3185		CL	CHUCK	2077	KP4		WILLIAM	1576
		BMW	ВОВ	1539		CL	CARL	3477	KC9		HERB	1745
١	,,,,											
	IZ TE	RN	CODDON	1502	DATE A	CTC		7571	1 1 T ()	I) II	CID	2 4 2 5
•	KJ5	BN	GORDON	1503	WP4	CLS	MILLIE	2541	NO	DJD	SID	2435

FIST	S CW CL	UB			Men	nbership I	Roste	er 7	1/2/97					
WB7 DJF	CARL	2004	KE1	ЕJ	GLENN	2784	KK5	FO	WAYNE	2447	W6	GSE	ED	3107
N5 DJY	LON	2320	KM5	EJ	JD	3393	KM4	FO	DWIGHT	3316	KN2	GSJ	GEORGE	1538
N6 DK	DICK	3395	WD4	EKB	DAVE	3000	W4	FOK	JIM	3272	K7	GT	GRANT	3222
NO DKE		2037		EKR	FRED	2743	3	FOM	ARMON	2010		GTM	KAREN	2407
KE6 DKH		2720	KI5		FRED	1229	•		FRED	1495	W1		MICHELLE	
K5 DL	JOHN	2768	KT4		WALT	3165		FQ	MIKE	2794	K1		DICK	2965
VE3 DLH		3292	1	ELW	LARRY	1469	VE3		BILL	1240	•	GUH	BECKY	2961
NO DLJ		1419	AA0		JOHN	2094		FSC	GREG	2044		GV	GERRY	1931
WD9 DMM		2571	•	EMD	DAVE	2095	t	FSF	BONNIE	2975	5	GVC	CAVE	3238
WB5 DMM		1412 1942	1	emt en	ROY KEN	3249 0927	KF9	FU	KEN CARL	2193 2 3 62	1	GVC GVG	WILLIAM	3243 3026
KF4 DNI		2577	AD4		GEORGE	1754	KP4		VIRGIE	2540	1	GVY	TOY BILL	2676
N1 DNN		1445	KF9		ERIK	3217		FU	TIM	2574	1	GVY	BOB	3290
W8 DO	DAVE	2512		EPA	AL	3101		FVE	CRAIG	1510		GXC	LAWRENCE	
K2 DO	DIANE	3330		EPD	SAM	2521	1	FVL	JOHN	1585		GXU	DUNCAN	3092
K7 DOE		3277	AB5		MEL	2492	1	FW	AL	1926		GXZ	FRITZ	3054
N7 DOH	PAUL	3457	W8	EQA	DAN	2469	NP4	FW	HECTOR	2531	KE4	GYU	GUY	2649
W3 DP	DICK	3464	VE7	ERA	OLIVE	0743	KC7	FWZ	TERRY	3204	N4	GYX	DOC	2070
KF4 DPS	JIM	3447		ERB	WAYNE	3109	N2	FX	BEN	1011	KF9	GZ	MARK	2400
WB8 DPZ		2323		ERU	WES	2099		FXK	JACK	0918	1	GZ	GENE	3052
K5 DQ	PEGGY	1921	KQ6		JOHN	2406			BILL	1248		GZO	ROB	2336
WA4 DQU		2449		ESX	JOHN	1565		FZI	PHYLLISAN	1767	WK1		ARNIE	1027
KB8 DRC	· · · · · · · · · · · · · · · · · · ·	2477	WD4		JEFF	2769		FZW	RAY	2604	AF9		PATTI	1785
WD9 DSP		2772	i	ETN	AUSTIN	2072	NS2		HELEN	0393	NN2		KAY	2424
WD4 DSS KM5 DT	BEN	1994 2128	AE4	EV	PAUL	1407 2653	WI2 WW2		ANNE	3143	NS2		DICK	2508
KO6 DT	BILL	2421	KQ6		TERRY BARNABY	2707	1	GA.	WENDALL CAM	3177 1920	WI3	п НАН	MARK GENE	261 4 3423
AC4 DT	NEAL	2993		EXI	JOHN	2760	N8	GA	GARY	2385		HAM	JERRY	3402
AA3 DU	MICHAEL	1400		EYE	CARL	2629	i .		GEORGE	3313		HAW	DAVID	2726
N3 DU	TIM	3368	I .	EYM	BILL	0655	F .	GAG	TOM	3278		HBE	PAUL	1923
KB7 DUG		2672		EZ	RANDY	1718		GAT	KEN	3069		HBE	JOHN	2061
KC5 DUI		1534	E .	EZG	VINCE	0315	W7	GB	DON	2108		HBJ	GEORGE	2780
W3 DV	WOODWARDVILL	JE 1975	WA0	F	MARK	1736	KE4	GBE	MIKE	1911	WB8	HBJ	ROGER	2947
	AMATEUR R.J.		WY6	F	PETE	2017	KC8	GBM	MIKE	3311	WD0	HBW	DICK	4 3380
WB8 DWI		3459	WT7		TERRY	2542			GREG	1578	MDO	HCO	BIZ	1929
VE7 DWG		3197	AD4		\mathtt{BILL}	2012		GCA	DAVE	2610		HCU	MIKE	1735
WA8 DXE		2160 2746		FA	FRANK	2036		GCB	JOE	1956		HD	ED	2790
W4 DXE		2710		FAF	JOHN	2590		GCD	JOHN	3146		HDJ	RAY	2901
WN4 DXI		3345		FAL FAX	FRED	2337	1	GCZ	HAP	3463		HDP	PAUL	3191
KC4 DY	GORDON	1588		FB	ALAN HOWARD	2192 1024	KK7	GD	GERALD ERIN	1019 3218	KG9	HEK	JOHN BART	2501 3348
KE1 DY	SAM	2689	_	FBE	ROYCE	3279		GEC	GLEN	3158	1	HFF	BILL	1239
AA8 DY	BILLY	2763		FBY	TED	2479		GEK	CHET	3351		HFJ	PAT	3434
W8 DYE	JOE	2024		FCC	DON	3440	N4	GEL	BUD	2417	KG2		RICK	2718
XE1 DYC	JOSE	2410		FCO	ED	3190	AC5	GG	LEE	2509		HG	HANK	3016
K6 DZY		2515	K7	FD	JOHN	2420		GG	вов	2766		ннв	TOM	3441
WO8 E	IRENE	0656		FDA	GENE	3048	KB0	GGQ	AL	3385	KC8	ннн	BEN	3390
NS3 E	ED	0909		FDV	JIM	1959	N4	GHI	GERI	2448	KE4	HIA	BRIAN	1795
WU9 E	PHIL	1449		FDX	DONALD	3403		GHO	ED	3195		HIJ	\mathtt{BILL}	3178
KJ8 E	ERNIE	3074		FEP	JON	2127	KF9		BROCK	2451	AA1		DAVE	1569
AA5 EA WA0 EAF	WALLY GARY	1969 3021		FF	KEN	1225		GI	LARRY	2630		HK	GEORGE	1420
	EVERETT	3120		FGT	DENNIS			GJV	BRUCE	1017	P43		HUBERT	2989
N4 EC	ED	3435	KG2	FGV	JIGGS	1286		GKR	TERRY	3104	AC5		GUY	2333
KC8 ECG		2990		FHK	KENNY	2352 2956	KL7	GKX	"RJ" "POBBI GORDON	2144		HL HL	HARVEY LES	2912 3081
KC8 ECI		2984		FHP	BOB	2943	KT4		CHUCK	2558	K1		BILL	3374
WN7 ECI		3274	AC5		ED	1499		GO	TONY	3354			MIKE	1480
N2 ED	ED	2454			BILL	2001		G00	TONY	0864		HLO	BOB	3474
K2 EF	FRANK	2583		FJZ	GENE	2388	NP2		GREG	1292		HLR	JOE	1962
K7 EF	GEORGE	3189	KB1		AL	0916		GP	MARK	2941		HLR	DOUG	2100
AA3 EG	LEN	2401		FKX	BOB	2646		GPJ		2652		HNS	HENRY	3010
N3 EG	EARL	2565	KE3		PHIL	3117	AL7		GENO	1984	AA1		ARTHUR	1283
KIO EG	PETER	2735		FLN	GEORGE	2049		GQR	STAN	2467	AA3		ARNOLD	2661
KA8 EGS		2715		FLY	BILL	3032		GQX	NORMAN	2538	1	HOG	JIM	2436
AC5 EH	DWAIN	3129	KI0		GENE	2349	AC6		JAY	2097		HOG	BOB	3142
KQ6 EH	PAUL	3429		FMC	RICK	2767		GRF	GEORGE	1783		HOK		3237
K8 EHE KF9 EI	TERRY Woody	3152 3040	AC 4		DAVE	1021		GRM	KEN	2688		HOS	RAY	2028
N7 EIF		3280		FN	BOB	2455		GRN	HERB	3336	KI0		ED	3427
M. DII	CHALL	2200	K5	FO	CHUCK	1716	W/	GS	GLENN	2976	LKC8	HRO	FISTS W	-~U#3400

Fl	STS	S CW CLU	UB			Membe	ership l	Roste	er 7	7/2/97					
		OF MICHIGAN		W7	JAT	VERN	1002	KA2	KDJ	GARY	1792	AB7	LK	GARY	1596
	HRS	PETE	1206		JAX	LYLE	2936	KB8	KEJ	CHER	1511	VA3	LK	LARRY	2752
	HS	PHIL	3317		JAZ	JIM	2058		KEW	KEN	1924		LKL	B.W.	2335
	HSD	ART	1269		JBD	MIKE	2404	AA1		JOE	1734		LKS	GEORGE	1235
	HSN H T	FRED GEORGE	2317 1730	i .	JBW JCB	MITCH ROB	3206 3034	KK4	KF KFJ	BILL	2390	WH6		CHUCK	2596 2053
K9		DAVE	3389		JCH	JERRY	2412	1	KFZ	GARIE BUD	1732 2567	AA3	LLZ LM	BUDD COLIN	1948
	HTV	CHRIS	3055	KG9		JERRY	2176	1	KGB	JOYCE	2380	KM4		JIM	2518
W4		JOHN	3166		JD	JACK	3267	1	KGI	FRANK	3061	KK5		WES	3469
AA1	HV	ZOEL	1291	N1	JDP	ROD	2052	AA9	KH	JAY	2377	N2	LMC	KIT	2055
KG9		JOHN	1750		JEF	JEFF .	3100	N1	KHM	KENNY	1288		LMV	GLENN	2724
KK4		JULIUS	1426		JEF	MAC	3411		KJL	KEN	2167		LNY	JULIO	2396
. —	HWR	GERRY	3207	4	JEN	RON	3009		KJU	KEN	3329	KG2		ROLAND	2980
	HXM HXM	GEORGE PETER	2030 2329		JEP JEV	MARIE ERIC 7J1AYH	2007	KG9	KK KLM	RAY	316 4 3232	1	LOK LOK	FRANCIS JEAN	2062 276 4
	HZD	WILLARD	2673		JFO	RAND	2679		KN	FRANK KEVIN	3089	1	LOZ	HARRY	2315
	HZH	DAVE		AE4		MIKE	2332	AAO		MARY	3183	1	LPF	JOE	2463
	HZO	FRED	2179	AC5		TOM	2507		ко	RICK	3362	1	LPQ	JIM	2429
AE8	I	KEN	1913	W6	JHB	JIM	3159		KOD	HARRY	2935		LQ	CHUCK	1477
KX9		ALEX	2569	KS4	JI	GARY	1774	KD5		JIM	3220	K8	LQM	VINCE	2042
NN6		WILLIAM	3116		JIM	MARGIE	1231		KQJ	KEN	1907	1	LRP	ROB	3455
AB7		ROBERT	2539		JIW	DON	1515		KQL	GARY	2534	AA9		JIM	2198
AC5 KK5		DOC DARRYL	3284	1		MIKE	1282	KG0		ELIZABETH	1592	1	LSN	LORILLE	2014
	IB	HARRY	2416 3255	•	JJH JJJ	WYATT ALAN	1018 2433	AA3	KRD	BRUCE DON	330 8 1752	1	LSO LSZ	RICH LEE	1990 2 4 28
	IDN	STEVE			JJK	TOM	3127	ł	KRP	LEO	3080		LT	LARRY	2008
	IE	TOM			JJR	MARK	3265	ı	KRV	ED	2964	,	LT	GEORGE	3227
KS4	IE	BEN	3087		JKY	MIKE	2626		KS	STEVE	3141	кз	LU	ULISESITIENW	
KB5	IEU	CHARLES		KI7	JL	LARRY	3181	WA8	KSS	RALPH	1417	KA7	LUH	CARL	1932
	IFE	ELAINE		KA0		DON	1979	AB7		KEN	1755	1	LUX	PAUL	3020
	IFF	ESTHER		WD8		JEFF	3268		KUG	BERNIE	3037	l .	LUY	HACK	2999
	IG	RICH		KG2		JERRY	1904		KUO	STEVE	3275		LVE	KEITH	2722
КĮ 4 К9	IH	FRANK WARREN	1938 3408	KB6	JMA JMJ	JOHN TOM	3454 2921	WL7 K5	KV KV	GARY BENNY	2338 2397	I .	PAA PAB	BILL LARRY	3247 2589
	IHM	WES		KD8		RANDY	2543			HORACE	2408	AA3		BRUCE	2525
	IIQ	STAN			јон	JOHN	2749		KWL	JOHN	3340	1	LYH	BOB	2758
	ΙΙŚ	LARRY	1777		JOL	PARKER	3043	WD4	KWW	JOHN	2375	1	LYM	JACKIE	3444
	IIX	HOWARD	2700	K8	JPM	BOB	2997	кв7	KX	GAVIN	2382	K8	LYR	JOHN	2312
	IJE	"TM"	3357		JPR	BILL	3215		KX	BOB	3046	NT1		ARTHUR	1222
	IJR	KARL	1013		JRL	DON	2470	KE4		JIM	3241	КЈ8		RODGER	1464
AA1	IKS	ERNIE PAUL	2644 3334		JRO	BOB	3079 2781		KX KXJ	BILL	3 437 2116	NU1 WX7		DAN	1722 2 4 93
	ILN	DENNIS	3233	N4 N8	JSK	JOHN SCOTT	2561		KYO	BILL TONY	2378	KC0		PATRICK LARRY	2528
	IMO	JORDY		KE4		JACK	2754	wx3		MIKE	1256	KS0		DICK	3067
	INB	GEORGE	2000		JTE	DEL	2426	WA2		ANDREW	1262	NJ1		DICK	3282
N 3	INT	BILL	2659	KB0	JTS	BILL	1586	AI9	L	JESSE	1772	W4	MA	\mathtt{BILL}	2623
W8		BOB	2692		JTU	BERT		AE2		JOSH				DARRYL	2442
AA0				AC5		JIM		W08		RICK	2188			MARK	1579
	IQ			AA3		CRAIG		WSO		JESS		AA3		CRAIG	2391
	IQ IQT	BILL JIM	2572 1241		JW JW	JIM STEVE	2372 3344	NN3 KJ7		ROBIN PAUL	3414 2453	•	MDD ME	JOHN DWAINE	1957 1 4 66
	IRE	JOHN	1906			CLYDE	3051		LBC	JOE	1558		MEE	DALE	1425
	ISR	WAYNE	2761			DICK	2510		LEC	JIM	3063		MEG	RICH	1790
KG0		BILL	3341		JWR	D AN	3375			LEE	0739	К4		GARY	2580
	ITF	ALAN	1038	K9	JXW	JIM	2325			LEN	1043		MFE	EURIQUE	3106
	ITN	TOM			JXY	TED	3209			PATRICK	1494		MFR	GARY	1299
	ITW	DICK	1492	K2		STEVE	3432	KE8		LARRY	2606	1	MFY	HAL	2473
	IUI	MERT	1793 3024	кв9	JYN	W.INDIANA D. EXPERIMENTERS			LF	ALAN	3027	N8		MARTY	1760
	IVG IX	GEORGE RIC		KK5	JZ	LOWELL	3299			JEREMY KERM	3065 179 4	AE4 KJ5		BARBARA DONALD	2018 2060
AE4		RICK	2499		JZD		2962		LFR		2464		MGS	DICK	2101
KD2		FRANK		NN9		PETE	2047	AB4		RICHARD	2459	AB7		DAVID	2498
	IXR	DAVE		NS7	K	RICH	3175			DAVE	1050	VP2		LAWTON	2554
KB9	IXT	KEN	3196	AA1		LON	2022			RALPH	0794			CONRAD	1295
	IYH	JIM		KT4		RICK	2458	1		GERALD	2143	AA8		GENE	0914
кхз		BUD	2513	ı	KCJ	ANDY	2527			JOHN	1460	KC1		JOHN	1491
AA1		YUZURU		AC4 AA3		HARRY CHRIS	3211 3240			NATE	2039		MIE		2744
		DWIGHT	2765 2330	K3 LW2	KDC	JIM				JAY BRIAN				GREG	3347 2085
VL O	UNU	JACQUI	2330	1			~	AA2	ΤV	DVTVN	1047	W/	uio	ERMON	2000

F	STS	CW CL	UB			Mei	mbership I	Roste	er 7	1/2/97						
VE3	MIQ	BILL	3025	AA2	NL	RICH	3342	KB2	OIC	BILL	2902	KE4	PPI	PETE		1799
	MIS	JOHN		KC5		BRAD	2465	ŧ	010	DORTHEA	3364	1	PPO	GARY		2924
	MJD	DUANE	3156	1	NLE	JIM	1756		OJN	WILL	2468	AA8		NEAL		2389
	MJE	MIKE	2156 2020	1	NLK	DAVE	1 4 55 3273	•	OKN	MERLE	1281 3212	1	PRF PT	JOHN DAVID		2704 2560
	MJV MKB	CURT BILL	3359		NLT NM	RUSS AL	2399	AA1	OKS	MARK BRUCE	1966	1	PTY	AL		3151
	MKE	GEORGE	3121	AL7		ART	2680		OLD	DICK	1521		PU	KEN		2354
	MLV	JAY	2918	Į.	NMB	PAUL	2013		OLK	RALPH	3466		PUP	JERRY		1946
N6	MLW	DAVID	1263	WB4	NNC	ALBY	2909	AE4	OM	DAVE	0719	N3	PUR	MIKE		3131
N 6	MM	HARVEY	2194	И3	NNH	ANDY	1428		OMU	JOHN	2199		PVC	KEITH		3071
	MM	FRANK	2992		NNQ	RICH .	2686	KF2		WILLIAM	1570		PVP	MARINO		1770
	MMA	YVONNE	3461		NOF	BUD	2321	1	ONU	JIM	2445 1582	KD8		CURT		2065 3472
	MMG MMO	ART MIKE	2322 3228		NOX NPL	DICK PAUL	2978 3399	ľ	OOM	S AM JERRY	2974		PWJ PWP	BILL PAUL		2153
	MMQ	45 15 45 4 717A			NQC	BILL	2634	t .	OPW	EARL	1797	4	PYE	ED		3353
	MNH	JIM	2196	KJ7		STEVE	1530		OQF	CHARLIE	1478		PYP	SCOTT		2485
N2	MNN	STEVE	3150	AA0	NR	RICK	1704	KT4	OR	RICHARD	2691	K6	PZE	DICK		3451
	MOA	KEY	2456	K4		TOM	3458	l .	ORH	JIM	3378	AC4	_	PHIL		3123
	MON	DON	3140	1	NRB	JERE	2439	AD4		KEN @ W9YB	1787	WN6	_	AL		3134
	MP	BILL	3073 3377	KJ7	NSL	PHIL TIM	2602 3139	KIO KS4		KEVIN JIMMY	2547 1903	t	QA QBC	RONALD		150 4 2796
	MR MSG	BRAD PAUL	2628	1	NSN	PETER	3201	N4		ANDY	2613		QBC	DOC		1996
	MSM	BARRY	2681		NSR	BOB	3396	ł	OUA	PETE	1254	ı	QBU	DON		2750
	MSM	DAVÈ	2725	KE2		MICHAEL	1031	KC7	ouc	TEARBIELL	2797		QCE	JOHN		3288
KA3	MTJ	CLARENCE	3326	W 9	NT	GURNEE	1955			JURACUSE F. N			QCU	DON		3318
AA1		CRIS	1928	AC 6		ERIC	2621		OUE	JOHN	2011 2368	KT4	-	JOHN		2732
KF2		OTTO	2328	N4 N6		MIKE	2657		OVT	PAULETTE ROBERT	1472		QBE QEN	AL		1980 1971
AA9	MVL	MARK STEVE	2576 2357		NTC	BRUCE ·	3325 1725	1	OW	JIM	3003		QEX QEM	RICK JOHN		2316
	MVN	ERNEST	1527		NTD	CHAS	3186		OW	BEVERLY	3188		QFK	PETE		2363
	MVU	KIM	1909	1	NTE	BILL	1744	K8	OW	ARLAN	3333	KD1		BRUCE		1227
N1	MVY	GENE	3270	W2	NTS	ED	2087		OWM	SKIP	2415	AB7	QG	TERRY		2551
	MVZ	JUDY	1973		NU	JASON	2545	1	OWN	SHERRILL	1701		QGI	JO ANNE		3269
KT4		WALT	3339		NUP	KELLY	2432	KJ7	OWP	BART BRIAN	3372 1575		QGV	HOMER	4	2619
	MXH MXQ	KEVIN ROD	2592 3163		NUT NUY	RICHARD WALTER	31 1 5 2953	KA1		WAYNE	2489		QIB QIL	WALT HENRY	,	3287 2137
	MYZ	AL	2773	1	NVV	LEE	1728	i	OXZ	ROGER	2926		QIQ	KEITH		2946
	MZK	DAVE	3406	AC4		RICHARD	3108	KC5	ozs	MARTY	2650	VE1		MAURICE		3176
NU4	N	DAVE	2115	N3	NY	JOE	2025		ozv	ROSE MARY	3315		QJМ	FRED		3231
NW3		RICH	2504		NYG	PICH	2607	AE4		ELLIOTT	1788		QJT	ED		2304
KB1		JERRY	2582		NZP	BILL	0911	WK3 WJ4		HERMAN RANDY	2353 2361		QJZ	TOM		2425 3084
NU3 K8	N NA	CHARLIE TED	2756 1415	WZ0 AE3		RICH A RD PACKY	1526 3136	NI6		PAUL	3153		QKR QLF	LOU MARGIE		1533
	NA	JIMMY	2190	1	OA.	MITCH	1467	KE 6		MARC	3160		QLH	DAVID		3387
	NA ·	LYNN		1	OAR	CHUCK	3019	AG5	P	WALTER	3259			RICHARD		1700
	NAF	FRANK	2431		OBI	DALE	2929	WD3		LARRY	3294	AC6		CLAIRE		1992
						BOB		K2	PA	LUIS H ANK	3260		QΟ			2111
	NBI	STEVE				MICHAEL	3098	KB7	DAD	MARION	3102			TERRY		2568
AF4	NBM NC	PAUL TOM			ocs ocv		1508	кв8	PAO	HOWARD	3075	210	QOO QOP			3184 2977
	NC	WALDO				FRED	2309			SONIA	3006		OR	BILL		1252
	NCY		3252			MIKE	1947	W4	PBL	FRANK	3430	K0	QR	RICK		2662
K4	ND	PAT	2669	W4	OEL	SHEL	3157			ART	0866	1	_	HARRY		2939
						CHARLES	2599	AD4		DAN JIMMY	2949 2346		QU	DAVE		2427
	NF	PAM	3072	1	OF	DAVE	1214			BOB	1733		QVB	JOHN		1047
		BILL CHUCK	2624 3286		OFG	JOE C HARLIE	2481 2678				2187	1.000	QVB QWJ	RICHARD TED		1584 2 4 90
	NGF	MIKE	2585			DAVE	2907	К2		PHIL	2995	VE6		DWAYNE		3130
			1273	,	OGI		2308	KF2		NICK	3199	KF2		CHET		1278
KE4	NGS	DAVID	2373		OGI		2958			TIM	2705		QY	RON		2968
	NGS	JACK	3419			CHARLES	1587	•	PHO	SANDY	3320			JOHN		2488
		CHARLES	0908			LARRY	3254	KJ5 AA8		STEVE JEFF	2566 3 4 01	1.000		MARTIN		1780
		KEITH		KF4		GEORGE	2130			VITO	3124		QZB			1934 2636
	NK NK	RUSS BOB	2906 3208			BILL TIM	1737 1523	1	PKI	LARRY	2748			JOE RICH A RD		2067
						DONNA	2611			RANDY	2348			BILL		2452
ATD 5	MPD	חאת	1097	RT5	OHO	TOHM	2210	N3	PM	JOE	1268	NF7		DON		2734
Wб	NKE	'KEN	0818	К А3	ону	BILL	2149	N6	PM	GREG	1568	WIO	R	TROY		3154
w 6	NKR	KEN M.H.	3295	KC7	OIA	ROB	3193	KD6	FOC	MAGA	3366	AH7	R	MIKE		3225

Fl	STS	S CW CI	LUB			Mem	bership l	Roste	er 7	1/2/97					
WB2	RAR	RICH	2126	WA6 S	SBB	GALEN	2394		TCT	BERNIE	1773	l 1377	UDZ	DEL	2064
	RAR	WAYNE	2716	N8 5		FRANK	1496		TCY	RICK	3023		UE	AL	1743
	RAY	CHARLES	1591	KB8 \$	SBW	CHUCK	2038	KC1		PAT	2620	KT4		KEITH	3256
VY2		DICK	1410	AA9	SD	CHUCK	3376	VE1	TD	E.J.	3276	WB2	UEC	JOHN	3114
	RB	BOB	2682	AA9		JOHN	2306	N8	TDE	JOHN	2313	K7	UF	BILL	3122
	RCH	JOE	2665	WB8 S		JACK	3322	W 5	TEN	WADE	2723	WA5	UFH	TIP	2922
		RICH	3415	WL7 S		CHAS	2350	KE6		DALE	3200	WA1		HANS	2027
KD4 VE5	RCY	DAVE	3244	N3 S		BILL	2651	AB4	TH	DEL	2106	KB7		GEORGE	1457
	RD	BOB RD	0907 2714	N1 S		STEVE	1450	KC5		JOHN	2795		UGL	DICK	2172
	RDC	CHARLIE	3428	N4 5		BILL DORTHA	2319 2082	N8	TI TIF	JOE JUNE	1016 2006	KC5	UGT	DAN	2575
	RDO	GLEN	2788	NO S		JIM	3012	1	TIJ	DAVID	3049	W1		BOB JERRY	3337 2675
	RDU	BOB	1264	N4 S		ROD	2358	N4		JOHN	3297	AD4		KAREN	3111
WO	RE	JIM	2776	K0 5	STA	LARRY	2300	W5	TJW	BILL	2057		UIQ	JOHN	3219
	REL	BEN	1976	K8 5	SIA	JIM	3323	AB7	TK	RANDY	3251	1	IJX	JIM	3002
	REM	RAY	2342	KC7 S		MELODY	3093	AA8	TK	EVAN	3327	N8	UJZ	MIKE	1571
	REY	JOHN	2937	N1 S		DON	2557		TLC	CRAIG	3091	KI5		HARRY	2182
	RFM	ARCHIE	2595	KA2 S		JACK	3363		TMR	ESTHER	3039		UK	STAN	2934
KF8	RFR	DON KEN	2462 1556	KE4 S		BRUCE JIM	3250	W8	TMS	ART	2184	KB2		JOE	2639
	RG	GEORGE	2043	N1 S		CAROLYN	2505 3261	AA5 N2	TN TNN	BILL D EAN	2519 3245	VE3 KE4		TOM	3379 2079
	RGQ	PAUL	3155	K4 5		SCOTT	2933	WA4	TNV	CLAY	2450	KE4		MIKE MATT	2341
	RHG	SARA	1418	N2 S		BOB	2658	AC6	TO	STAN	2695	KB2		TOM	2174
KC7	RHM	JOE	2717	N3 S		RICH	2165	KG8	TO	DAN	2713		ULZ	BRUCE	2076
KG0		CHARLIE	1482	AA2 S		BOB	2434	WA4	TOJ	MARVIN	3224	KE8		MURRAY	1518
AA0		CHUCK	2982	AB7 S		JIM	3171	KE4	TOY	KEVIN	2 4 61	КЈ7	UN	LAURA	2785
	RIQ	GARY	2359	N1 S		HENRY	2706	KF2		RICK	2191		UNQ	CARL	1218
KB7		DWAIN	2040	WA5 S		GILLY	2791	W8	TP	TED	2403	WA5		ALEX	3304
N9 AA8	RJ	RUSS DUANE	2393	WA7 S		DICK	2553	W1		TOM	3312	AA9		JIM	3460
AB7		MARSHA	2413 2564	KC5 S		CARL VICKY	2782 3095		TPE TQE	ED BOB	260 5 319 4	VE3		DAVID	1542
	RJ	ROY	3137	NO S		BEN	3086	NO		TOM	2387		OOU	DAVID JOYCE	1542 2633
KF9		TONY	1424	KI5 S		KEN	3059		TRK	STEVE	1915	1	UOR	FRANK	3338
AB7	RK	GARY	2457	N9 S		ALLAN	3453		TSO	CHUCK	2730	KG8		JIM	1705
KC7	RKR	DENNIS	3070	KC7 S	SRL	KURT	3352	KO4	TT	STEVE	3180		υQ	RON	2727
	RL	ŔĹ	2698	K6 S		ALAN	2536		TTL	JAY	2740	KE6	UQK	CHRIS	2355
_	RMD	CHAS	2593	AA9 S		JOHN	1483		TTT	SHEILA	2078	KJ7		PRESTON	3350
	RNL	LB	2600	K4 S		GEORGE	3090	KB7		BOB	3418	KE4		ERIC	2045
	RNP RNV	ALAN FRANK	3147 1950	N9 S		DAVE ED	2365 3038	KF9	TU TUF	GREG	1228	KC6		CHARLIE	3226
	RO	FRANK	2967	KT4 S		ARNIE	2940	KB8	TVZ	BILL BOB	1430 2384	KA2 VA3		GARY JACK	2503 25 17
	ROA	D AN	3407	KA1 S		BEN	2113	N8	TW	TED	3386	AA8		JOHN	3343
	ROG	KEN	0924	KB2 S		JOHN	1967	W4	TWB	RAY	1487	KC 4		DON	0910
K5	ROV	JIM	3266`	N3 S	SUS	ED	2395	K4	TWJ	DAVE	1435	N9	UUI	BOB	2402
VA3	RP	ROD	2684	K4 S		LIN	1940		TWK	GEORGE	2331	KS4		ED	1769
	RPR	PAUL	1485	N2 S		STEVE	2104	WA2		ROY	2903	ИЗ		CHRIS	2347
	RQN	CHERYL		KB7 S			1549		TWZ	KEN	2476	W9		RON	3412
AA1		PAUL	3446	KB7 S		LEON	2771		TX	STEVE	3467		UWZ	RICH	2957
	RRB RSD	RONALD FRANK	2533 2411	N9 S KB2 S		GENE CHUCK	1202 1964		TXJ TXU	JIM SKIP	1448 1958	WA1 K8		RON DAVE	3099 26 4 8
	RSX	CARSON	1939	K2 5		BERNIE	0748	AB5		LEA	1563	KC7		STEVE	3398
	RTN	LEE	3125	KE8 S		PAT	1927	KD3		DON	2344	КАЗ		LARRY	3475
	RTR	ROB	2930	KA9 S		TERRY	2616		TYB	BOB	2141	KG8		MIKE	2721
	RTU	MIKE	2305	KF8 S		ED	1720		TYC	JACK	3246	KF8		BOB	3319
KO6		CLAUDE	2150	AA9 S		BOB	2157		TYL	DAVE	2603	N4		JAKE	3450
	RUK		2440	W3 S		BOB	3058		TZA	FRANK	1945	KE4		BERT	2386
	RUO	STEVE	2923	K7 S		RICH	2793	W3	TZW	ROY	3205	KD6		DAVE	2033
AA8	RVV	MIKE TOM	1046 2169	WP2 T		FRED MAGGIE	1020	WG3 WZ8		JOHN LOREN	1500 1712	KB2 WE6		BRYAN	2356 0865
	RVY	RALPH		WZ2 T		RICK	1287 2753	WI3		HENRY	2708	NY2		JIM FRED	1293
	RWH	CARL		NV1 I		GERRY	2777	NZ2		JIM	2778	KB7		PAUL	2003
AE4		AL	2712	NB2 T		LOU	2944	KF4		JIM	3007	NK8		BOB	2302
AA1		NEL	3135	WR4 I		THEODORE	3416	KJ5		EL	3229	KB5		JIM	3113
	RXO	KEITH	2073	N9 T	'A	FRED	2301	KC4	UBC	BILL	3083	KS5	V	ED	3283
WX4		ED	1516	KB6 1		JIM	2655		UBG	BOB	3361	AC9		BOB	3331
KF8		STEW	2683	N1 I		DAN	3173			CORB	2642	KF9		STEVE	1952
		VIRGINIA		KE4 I		TERRY	2303		UCS	CHUCK	3355	WN3		RON	2981
K2 K9		STEVE TIM	1462 3223	KN6 T KB2 T		JIM PICK	2086 3 4 05			DAVID ALAN	2327 3332	KB6 N5		JOHN	3057
NO	JD.	1 IFI	J443	ا عصدا	CK	VICK	2403	1 INO	OUC	ALAM	3334	1 142	**	VIC	2311

F	IST	S CW CL	UB			Men	bership	Rost	er	7/2/97					
W4	VC	HAL	2370	N9	WC	GREG	1717	KD1	XA	JON	2089	KT4	YY	ROGER	2418
KB0	VCC	DALE	3172	W8	WC	BILL	2371	KJ5		BUD	3309	AA8		CARL	2500
K3	VE	STEVE	3383	N2	WCR	JOHN	1461	N5	XE	CARL	2520	AA0		MARK	2948
	VEF	DICK	1215	KE4	WCW	MARTY	2019	KJ5	XF	TONY	2102			MIKE	2511
		ARTHUR	2546	KK6	WD	JIM	0751	AA0	XΙ	MARSHALL	1791		YYY	COWLITZ	1900
	VF	BOB	3473	K1	WD	WILLIAMzGo	V2G 1522	AA0	ХJ	JAMES	1978	ŀ		FISTS A.	
	VFN	RICHARD	1458	N8	WDH	CHUCK	1258	N2	ХJ	CARL	3271	AF5	Z	BOB	2035
AA2		PETER	2530	KB8	WDX	WALT	2792	N3	ХJQ	CHIP	2645	K06		HERB	2343
		EARL	2535	KP4	MB	RUBEN	2615	KS4	XN	JOHN	1965	NR2	Z	MARTY	3015
	VGQ	STEPHANIE	3445		WE	BOB	2660	N7	XN	DALE	3373	VE6	ZAA	JOHN	2950
KE3		RALPH	2486		WEA	ED .	3011		XNH	FRED	2799	VE1	ZAC	JEFF	2048
KQ4		CARL	2552	ł	WEE	RON	2324	AB5		MIKE	1910	K6	ZAN	RALPH	1529
KK5		WILBUR	2063	1	WF	STU	1493		ХP	GREG	1977	VE3	ZBB	BETTY	1265
		BERII VESVIA			WP	BILL	2016	KD9		ED	2915	W4	ZC	JACK	2379
		BERYLAKATVIA		KG8		VINCE	2460	AA7		HOWIE	3103	K9	ZCH	LARRY	1474
	VIA	DAVE	2970	,	WFB	LEE	2326		XT	TOM	2627	KD4		LARRY	269 4
	VIZ	TOM	2423		WFZ	TED	2366		XUJ	KELLI	2966			CLARK	1766
	VJF VJU	RANDY JIM	2 374 2920	AA2		DIANE	1237		XWA	LAURIE	3305	I .	ZDW	LEE	3285
	VKY	BRIAN	1212	KF9 AC4		TOM	2318		XX	"THE SUB"	1443	KB0		AUBREY	1289
	VLF	NATHAN	3041			BILL	1729	KN6		PATSY	3162		ZED	FOREST	3018
	ATA	CHUCK	2693	WL7 KK5		BOB	3420	1	XZ	ALLEN	2635	AC4		DUANE	1709
AA8		CAL	2472	•	WHN	DOUG	3449	1	XZB	CRIS	2183		ZH	TERRY	3397
	VM	NORM	2770	AC4		JAY LOUIS	3044 1595	WA5		RUSS	1721		ZHF	RANDY	2151
	VMY	ERNIE	3476		WK	WAYNE	2775	KC3		BUCK	3369		ZJN	SAM	1989
	VNQ	JIM	2913	1	WKE	BRUCE	2345	1	YAG	TIM RICK	3 4 0 4 2 4 22	KG8		CHARLES	2383
	VOQ	NICK	3045	ŧ .	WL	WES	2697		YB	T.P STATION		;	ZKB	DAVE	3022
KR4		CARL	1274		WLC	MIKE	3234	Wa	16	JEE AD4 1S)	1/0/		ZLL ZMP	JERRY	3291
	VQ	LEN	2134		WLP	KERRY	2927	KC5	YBA	KEITH	3096	1	ZMP	ORIN MARK	3082 2563
	VQN	GREER	2502		WM	PERCY	3216		YD	PETER	2762	1	ZNC	MAX	2549
	VQR	BARRY	2774	•	WMB	DAVE	2522	AC6		PATRICK	3468	1	ZNF	JERRY	1775
	VQV	BEN	2677		WMJ	KEN	1524		YDT	JACK	1261	W8	ZNH	BILL	1023
WA2	VQV	RUSS	3179		WNM	CAL	2632	N2	YDU	JOHN	2696	кв7		BOB	2478
KB2	VQW	KEN	3110	1	WOW	PAUL	3198	K2	YEW	NORMAN	2654	•	ZP	D AN	1276
wз	VQY	SKIP	3031	K2	WP	BILL	2608	N5	YFC	WAYNE	2550	:	ZPL	JOHN	. 2419
WA0	VQY	ROBIN	3346	AA8	WP	LARRY	3384	KA4	VIV	BOB	3161	KG8	ZQ	JERRY	3053
8AA		CHUCK	1434	N8	WPX	JOHN:	3062	N3	YIW	LOIS	3029		ZQR	DICK	1429
WA2	VSL	DON	1993	AC6	WQ	ROB	3462	N8	YJВ	EVERETT	1968	AA0		JANE	2496
	VT	RANDY	2080	KB2	WQZ	BOB	2969	1	YJK		2625	KJ5		TERRY	2584
KJ 6	VT	USS PAMANITO	3077	KF8		TED	1779		YK	ART	1998	K7		JACK	2656
71 TO A	*****	CADIAND	2002	1	WS	EARLE	2466	AA2		ERNIE	2751	W4	ZR	JIM	3013
AE4		GARLAND	3203	AB6		GINGER	2736		YKH	BILL	1577	N8	ZRV	THERESA	2618
	VTB VTN	LANNY ELMAR	1970 2112		WSJ	ED	1715		YKI	NORM	2166	AB5	ZS	SUE	3174
	VVE	MAGGIE	3424	l .	WSK	STEVE	2588	AA8		GARY	2155	1	ZSF	MICHAEL	2945
	VVW	DEAN	3133		WSS	PETE	1279		YLA		3068	ı	ZVD	WALT	2369
	VVX	JON	2494		WST	BILL	3028		YMH	ANDREW BILL	2789		ZWW	WAYNE	1243
KJ5		GARY	3192.	CA	WTA	BILL	1594		YNY		2738	N8	ZXB	JOHN	2562
	VWD	BRAD	2446	KD/	WUM	GEORGE	1951	AA8		WILLIE BOB	3392 3056		ZXX	BOB	2742
KS4		ROGER	2041		WUS	BETTY JIM	32 58 3 439		YOP	STELLA	2597	KI7		PHIL	1949
KR4	VY	KEITH	2405		WUW	CHUCK	2622	AB6		VERN	1731		ZYH	DAN	2529
	VYE	RICH	3050		WVO	TOM	3001			BILL	2096		ZYT	DON	3381
N 3	VYW	MARY	2090	1	WWI	CHRIS	1758		YPL	DEE	1997		ZYV	CARL	3426
K7	VZ	HARVEY	1943		WWP	JOHN	2002			ANTHONY	2471		ZYY ZZD	RAY ROGER	2046 2054
AA7	VZ	ROBERT	3182		WX	WARREN	1475	ı		FLOYD	3281		ZZQ	ROB	
W4	VZB	STAN	3307		WXH	LOU	2699		YQJ	ERNIE	1759				1995 2666
KC 4	VZK	TTAM	2339		WXQ	AL		KK5		ALVA	2594				
	VZK	MATT	2339		WXY	WALLY	1941	KB8		JOE	1914	ll U	IK-E	UROPE-	-ASIA
	VZR	CHUCK	3358		WYO	AL	2719	KR4	YS	JEFF	2914			ZL, JA, AFRIC	
WZO		SLEET	1284	WB8	WYU	JESSIE	2733	N0	YSE	HANK	2670		4,00	, _L, JA, AI 141	7
AC8		STAN	1454	K4		RON	2109	WA7		ERIC	2506	73J	AAT	NICK	2814
KP3		JOSE	1706	AA0		BOB	2685	K4	YTB	DEACON	1935	DL8		WOLF	2814 1364
AE4		GUNNAR	2068	ND9	X	FRANK	1012	K5	YU	HARV	3253	ZU1		JOAN	1364 1696
WF6		BILL	3148	NV1	X	BOB	1535	KI4		BOB	2647	Y03		ANDY	2287
KB9		DAN		NW8		RICH	1540	KO4		GEO	2667	2WO		PHIL	1187
WG8		ROD		KR7		HANK	1933	AA0		DENIS	2021		AEC	ESDE	0878
KZ5		BRAD		AD5		PHIL	2905		YXC	GEORGE	2351	3Z6		WALD	2837
N1		WES		KN2		BILL	2951		YXU	LAURIE	3382	LZ1		DIMITER	0416
AA6	WC	JOE	1532	NU5	X	JIM	2988	N2	ΥY	JERRY	1589	PA3		PIET	0445
							- 28	•			_ '				- 1 1 0

F	ISTS	CW CLI	UB			Membe	ership l	Roste	er 7	/2/97				
M 0	AFJ	MIT	2824	G4	ВЈМ	FRASER	0044	G0	DRT	PETER	0652	G4 GO I	JACK	1100
MO	AGL	JIM	2857	JP1	BJR	HAL	0325	G3	DUH	CUJRLY	1156	F6 GPA		2249
MO	AGO	HARRY	2843	G4	BLI	ALAN	1637	TF3	DX	VILLI	1658	GO GPM	JOHN	0412
	AGQ	BRIAN	0990	DA2		BARRY (W1BJ)	2701	G0	DXB	${ t BILL}$	0132	G3 GPZ	PETE	0613
	AGW	DIMA	0729	1	BM	FRANK	2784	G4	DYG	PETE	1182	GW0 GQC	BRIAN	0671
G0		DEREK	0117	I .	BNS	DICK	0532		DZF	JIM	0422	GO GSQ	GEO	0266
		DAWSON	0265		BNU	PAUL	2854		EBA	JAN	0827	GW0 GSW	VICTOR	0042
	AIZ	TOM	1692		вој	HOWARD	0689	4	EBK	GEORGE	0804	GO GIN	JOHN	0638
9A2		TOM	2220	GB2		MUSEUM	1890		EBW	DAVID	0421	G4 GUA	JOHN	0467
	AJE AJS	PAUL JOOP	18 4 5 28 7 1		BQV	MARY	0040		ECS	KEN	1335	G3 GUR	JOHN	1819
	AJX	PACO	0771	ZF8	BRR	JIM PRICE ALL NO	1063		EDC	BRIAN	0151	G4 GUW	GORDON	0857
M0	AKA	GORDON	2832		BSK	BRUCE (NoNT	3325 1666		BEJ BEM	ALICE	0710	GWO GUY	ELWYN	1685
G2		BILL	0002	E19		DERMOT	0015	1	EEO	BOB DENIS	0724 18 8 9	GO GWD	PETER	1096 0817
MO	AKN	GORDON	2870		BUH	ALEX	0015	DK8		FRANZ	1837	DL2 GWL	ALAN ULF	2284
MMO		NEVILLE	2281		BUR	ROY	0523	1	EIB	JIM	0372	DF3 GX	KLAUS	0600
ZS6		VIDI	1699	ł	BUS	REG	1834		ELH	BOB	1397	G3 GXQ	WALTER	0947
M 0		JOHN	2808		BWG	JOHN	0238	DF4		DIDI	0737	G4 GYD	MIKE	1352
G0	ALH	STAN	1671		BWJ	BARRIE	1378	S53		MIL	1098	GO GYY	PETER	1601
2E0	ALN	DAVE	1858	LA3	BX	TED	2820	1	BRV	SHIRLEY	0107	G0 GZK		0554
M 0	ALO	DON	2839	G0	BXV	DAVE	0261	1	ETJ	REG	1394	GO HAU	TED	0277
2E0	ALQ	PETER	2283	LY3	BY	VILMAS	1811		EUD	CHARLIE	0067	G3 HBN	JIMMY	1199
2 M 0	ALU	JIM	1844	G0	BYG	JIM	0089	G0	EVV	DAVID	0550	OK2 HBR	ZDNEK	2812
2 W 0	AMB	JOHN	2217	G3	BYX	DES	0581	G4	EYY	ROY	2826	GWO HCB	PAUL	0528
2E0	AMK	DERRICK	1860	DL3	BZZ	LUTZ	1640	2 W 1	FAA	JENNY	2236	GI3 HCP	DES	1311
G3	OMA	JOHN	2848	GI4	CBG	ROY	0161	G4	FAI	TONY	0029	GO HDE	CHAS	0845
UA0	AMW	GEORGE	0836	ON4	CBK	MARTIN	2858	EI2	FB	LIAM	1197	GO HDI	BRIAN	0620
DN4	ANE	BERT	0435	G0	CEK	FRED	0334	G0	FBY	ROD	2273	G3 HEL	JACK	1663
M 0		VIC	2291	3B8	CF	JACKIE	0951	DL8	FCO	WERNER	1183	GM3 HEN	TONY	0122
		ALAN	2269		CGT	BRIAN	0702	G0	FDJ	KEITH	1348	G0 HFI	GORDON	0609
M 0	ANQ	JIM	2842		CHV	MIKE	0090	UB5	FDM	JERRY	0832	GO HGA	ANGIE	0041
G0	ANY	DARYL	2270		CIJ	MIKE	0663	DL4	FDM	FRITZ	2225	GO HGG	GORDON	0930
	AOH	RALPH	1073		CMY	TONY	1626	1	FEQ	RENE	1670	GO HHL	PHIL	0429
		GILL	0280		COX	PANOS	1809		FFD	DAN	1149	GO HIN	1011	• 0069
2E0	AOR	MARK	2250		COY	JOHN	1833	1	FFE	FRANZ	2280	GO HIS	DAVE	1071
	AOZ	IAN	2841		CPA	GEOFF	1644		FGT	JUL	1051	E15 HJ	GERRY	1079
	APA	FRAN	2818	2E1		RAYMOND	2873		FGW	RON	0433	GO HJX	PETER	0819
	APC	MICHAEL	2838	PA3		FOLKERT	2850	I .	FIP	ELLA	0215	GIO HKS	BILL	1876
	APY	RICHARD	2804	GI4		KEN	1064	UT9		SAM	0618	G2 HKU	TED	0841
	AQF	HARRY SERGE	2869		CSC	SAM	0339		FJC	RICHARD	0988	GO HLG	GORDON	0488
UA4 SP7	AQO		1180 1321		CSR CUV	GEOFF	1830	G4	FMH	BILL	0996	GMO HLP	IAIN	0535
	-	STAN LES	2822		CVH	JOHN	1664 0048	1	FOD FPV	NEV	0308	GI3 HNM LA3 HO	CLIFF	1379
	ASC	MIKE	2260	EW6		VINCE VAL	1338		FPY	IAN ERIC	0946 1331	ZS6 HR	MIKE REON	282 1 16 9 7
G3	ASG	RAY	2272	EIO		BREN	0632		FRL	BOB	0390	GO HRL	GERALD	0975
	ASU	KARL	2827	•	CZC	LEONCE	1371	1	FTU	ROY	0502	EI6 HS	PAUL	1313
		MANFRED	0418	ı	DAC	ALAN		RB5		GENE	0792	G4 HSC	HARRY	1192
		MIKE	1854		DAF	JIM	0795		FUS	PAUL	0110	G3 HSP	ALEC	2218
	ATS		0331		DAL	DAVE	0075		FVS	JIM	0628	IK2 HSW	HENRY	1388
	AUH	JACK	2802		DBU	ERIC	1310	EA3		JORDI	1846	GO HTX	TONY	0139
	AVL		0931	•	DCM	ARTHUR	0288		FXN	ART	0127	GM3 HVT	JIM	1628
	AWB	TONY	2805	ı	DCO	BRIAN	2856	EI5		BILL	0846	GO HXU	SIMON	0010
	AWJ	JOHN	1195		DDI	PHIL	0631		GBG	PAUL	0637	GWO HYC	BEN	0485
GW0	AWN	HARRY	2221	G0	DEB	DAVE	0380	G4	GBX	WANDA	0514	GM4 HYF	GEORGE	0243
G0	AXE	MIKE	0361	DL6	DGH	ULI	1874	GW4	GCB	PETER	0657	GO HYT	PATRICK	0220
7J1	AYH	ERIC KC5JEV	1441	G4	DHZ	PETE	0980	G0	GFG	MARK	0113	G3 HZL	DON	0410
ZR6	AYS	GREG	1800		DIX	RON	0740		GFQ	RON	0894	GO IAL	ROD	0348
9HI		GAET	1689		DJA	DAVE	1372	GM3	GG	GEORGE	1154	G4 IAV	BOB	1140
	AZH	JERRY	2862		DJI	DANNY	0312	1	GGE	PETER	0700	G8 IB	DUG	0882
LY3		GEDAS	0984		DKW	JIM	0639	1	GGU	STEVE	0491	LA1 IE	OTTO	0249
	BAE	GERRY	0683		DNB	\mathtt{BILL}	0058	I .	GJN	JEURG	0948	GO IFM	COLIN	0728
	BBA	JEMPI	1849		DNC	GEOFF	0071		GJR	ARTHUR	2271	G0 IFT	PETER	1194
	BBE	REG	1188		DOT	JOHN	0718	•	GJY	SID	1667	G0 IFX	BRIAN	0471
	BCM	WALTER	0870		DOA	DEREK	0175	1	GKE	LES	0197	GMO IGJ	JEFF	1356
	BDW	BEN	1695		DPH	GRAHAM	2294		GKH	DAVE	0034	GO IGP	TONY	0129
	BEY	SCOTTY	1184	VK7		JERRY	0957	DF3		KLAUS	1636	GW4 IGQ	REG	0086
	BGI	STAN		ZS5		DON	1802	JA3		BEN	1869	E12 IH	HUGH	2212
		ROBERT	1377		DRA	ACI	1077		GOD	RILEY	0847	GO IJE	DON	0509
PA3	\mathbf{BJD}	BRAM	18 4 8	SM7	DRH	CLEM	0973	I G0	GOD	JOHN	1604	GO ILN	RICHARD	0398

F	ISTS	S CW (CLUB			Men	nbership I	Roste	er 7	//2/97				
G0	IMF	ALF	0427	ON5	KK	GEERT	1836	G0	MEX	HARRY	2245	GO ONS	JIM	0741
	INA	RON	0097	1	KKL	PHIL	1859		MFE	JACK	0603	GW0 ONU	DENNIS	0591
	ING	JOHN	1674		KKX	DOUG	0466		MGD	DENNIS	0630	G0 OOD	TIM	1350
	INM	TOM	0084		KLF	TONY	1198		MGV	BOB	2867	GX0 000	VARIOUS	1000
	IOF	GRAHAM GORDON	0231 11 4 7		KLQ KLS	EDD RON	1843 1336	ı	MHE	BRUCE	1677	G4 OOS	JOHN	0812
	IQA	REG	1116		KMG	DAVE	0124	1	MJV MJX	ALBERT TONY	1357 1893	GWO OPY	DAVID	2852
	IRL	AUDREY	0510		KMG	BILL	0484		MKJ	KEN	1390	G0 ORD	ERIC CHARLES	0963 0852
	IRM	DEREK	0123		KMU	JOAN	0786		MLA	ERNIE	0606	G4 OSB	TOM	0579
	IRM	PETER	1092		KNJ	вов	0463		MLD	KEN	1091	GO OSR	OLIVER	1178
	IRO	BRYAN	1823	G0	KPB	TONY	0512	G4	MLW	IAN	0130	G4 OTN	COLIN	0028
	IRP	COLIN	0690		KQM	BOB	2211		MMF	BILL	1613	GO OUI	BILL	0888
		RENIE	0610		KQN	JACK	0699	ON6		MARTIN	1826	GO OVZ	SHAUN	1368
		BILL	0991		KRT	ERIC	0133		MOU	DICK	0668	GO OWS	JIM	0822
	ITS IUN	ROY RON	0498 2835		KTT KUL	ALAN DOUG	1308 0840	HA2	MRH	JANOS RON	0899 132 7	GIO PCU	RICH	1693
		SMUDGE	1614		KUS	BERT	0856		MRM	ERIC	0586	GI4 PCY	DAVID FRED	0831 0156
	IXI	TREVOR	1141		KVE	KEN	2235		MSR	JEFF	0357	GO PDM	MIKE	1343
G4	IXL	BOB	0165		KWD	KEITH	0525		MTG	KLAUS	2200	GO PEH	TONY	1657
	IZU	MIKE	0809		KWO	KEN	0006	G0	MTJ	JOHN	0873	G3 PEN	DAVE	1303
	IZW	DEREK	1302		KXG	KEN	0938		MVG	HERBERT	0760	GM0 PIV	DONALD	2847
	JAN	JAN	1698		KYC	ALAN	0513		MVZ	PAULINE	1160	GWO PJX	CHRIS	0950
G0 G0	JBP JBQ	ROBIN SIMON	0205 0204		KZA KZK	ERNIE	0738 2288		MWF MWU	RAY	1151	G4 PKN	BRUCE	2242
UA6		VLAD	1385		KZZ	BRI AN NIGEL	1821	1	MYI	BRIAN GEOFF	0701 2274	G3 PKX G7 PMH	DON RON	0257 1624
	JEG	BILL	2254		LAW	YANN	0752	1	MYY	JOHN	2853	GWO PNC	HARRY	1106
GW3	JEZ	BOB	0364		LBT	KEN	1897		MYZ	MARIAN	0636	GWO PNI	DAVE	1053
G0	JFD	GRAHAM	0477	G4	LGA	DON	0642	1	MZS	TOM	0150	GO POJ	JUDY	0883
	JHZ	LES	1322		LGF	TERRY	1817	OH2	NAG	PEKKA	2811	G3 PPD	STUART	0977
G0	JIT	DICK	1136		LGM	BILL	0564		NAI	ISRAEL	2803	GWO PPG	SYD	2285
G4 G0	JIZ	JESSE	0179 0851		LHI	PETER	2219		NAL	KIRIL	0842	GO PPI	DEREK	1639
	JJQ JKW	WAYNE ALAN	1132		LHK LHZ	GWYN JIM	1125 1155		NBI NCL	LES RON	2297 0168	G4 PPK G1 PPK	CLIVE JOE	0244 1375
G0	JLQ	CHAS	0622		LIE	BRIAN	1370		NDT	PAUL	0653	G4 PPV	GRAHAM	• 0134
G0	JLX	ANDY	0358		LIM	GEOFF	1652		NEB	JOHN	0755	G4 PQG	RALPH	0634
	JMZ	JOCK	2865		LIR	PIP	0942	Y04	NF	SIL	1330	GO PQU	CYRIL	1676
UU4		ALEX	0678		LIU	GEORGE	0816		NIR	DOUG	1121	GO PRD	PETE	1179
GO.	JNR	SHANE	1396		LJB	PAUL	0493		NIY	EDDIE	1612	GW3 PRL	MARTIN	1315
G0	JOE JOH	JOE NIGEL	0764 2282		LJU L LN	COLIN PETER	0099 1871		NJB NKI	BOB LUIGI	1317 1052	G4 PSE G4 PSI	MIKE	0837 0032
G0	JON	JOHN	0774		LOA	JOHN	0121		NKO	KEN	0862	G4 PSL	GEORGE TERRY	1062
IK7	JPJ	WALTER	1349		LOE	STUART	0625		NLB	SAM	0983	GO PTB	BRIAN	1072
G3	JPZ	IAN	1347	G0	LPF	RICHARD	0960	GO	NNJ	SID	1386	G4 PTE	KEN	0723
	JRE	JOHN	0577		LPS	ERIC	1398		NNK	ALF	2815	GIO PUZ	IRENE	1656
	JRN	ART	0295		LQX	TREVOR	0425	•	NNO	JOHN	0478	GO PWZ	PETER	0876
	JRT JTO	TOM ERIC	0745 0766		LRB LRE	STEVE LARRY	1171 0750		NOB NQH	LIONEL	0785 09 4 5	GO PXI	PHIL	0979
	JTS	TOM	1681		LRP	PETER	1672		NQL	JOE MAURICE	1816	GW4 PXQ GM0 PXV	GEORGE PETER	0160 1057
	JUD	AL	0697		LSH	ALAN	0508		NSU	GEORGE	1606	I7 PXV	VIN	1342
UA6	JW	HARRY	0820	G4	LSI	JOHN	0368	ZS6	NT	DWIGHT	1805	GWO PZS	TREFOR	0976
	JWB	\mathtt{BILL}	0385		LSY	JOHN	0196		NTM	JIM	1899	G6 QA	LYNDA	2864
	JXS	CLARRY	0506		LTH	LYNDON	2226		NTP	CLAUDE	2275	DK7 QB	BERT	0362
L21	JXT	TED TONY	1603 1318		LUZ LVB	FRED	0444		NTR	JIM	0264	SP2 QVS	PIOTR	2801
	JZM	CHARLES	1688		TAR	MALCOLM ALEC	1175 0682	l	NUP NVP	KEVIN PENNY	0796 0704	G4 RBE G0 RCB	JACK TED	0174 1687
	JZU	ROSS	0679	ł	LWI	FRANK	0901	l	NVY	PETER	1316	GO RCE	KEITH	1054
DL8	KAZ	DIETER	0593		LWJ	COLIN	2240	TI5		ULISES (K3LU		UB5 RCH	VICTOR	0936
	KCA	JOHN	0200		LWU	DERRICK	1608	G4	NXN	TERRY	1104	G3 RCO	CHARLES	1168
	KCJ	ALAN	0602		LYY	JOHN	0696		NYZ	STEVE	0982	G4 RDM	PETER	0186
ZS5		BILL	1801		LZA	DEZ	0833		NZL	JOHN	0773	DJ3 RE	HANS	1894
	KDJ KEF	KLAUS TOM	2851 1839	S51	LZL	DAVID BRUNO	0587 22 4 3		NZU OAV	RON DOUG	0309 0562	GO REA	ROMA	0895
	KEW	BOB	0275		MAM	DAVID	0497	ı	OBU	KEITH	1615	GO REB G3 REV	CHRIS RAY	1164 2216
	KFD	BARRIE	1616		MAP	BOB	0935		OCG	FLORIAN	2201	G4 RFS	STAN	0229
G0	KHI	BILL	0706	G0	MCE	BOB	2829		OCV		1648	G3 RGE	KEN	1662
	KHX	DANIELE	1885		MCK	GERALD	0230	DF8	OF	SIGI	0949	G4 RGK	DAVE	2238
	KHY	JOHN	0487		MCV	SANDRA	0555		ОНХ	SAM	0455	G0 RGO	MALCOLM	1134
	KJH KJJ	CHRIS JOHN		ZS6		ERIC MEGAN	2809		OKM	JOHN	2268	GO RGV	RICHARD	0981
94	VOO	OOM	1630	ا نجن	NDG	PIEGAN	0518	l GO	UKZ	JOHN	0780	G3 RHP	JOHN	1879

F	ISTS	S CW CL	UB			Me	mbership l	Roste	er 7	1/2/97					
	RHR	KEN	2248	G0	TCF	PETER	1340	GW0	UWM	JOHN	1810	G7	WIH	MIKE	2807
	RHU	MALC	2810	1	TCJ	DOUG	1346		UXK	PAT	1622	G3	WII	FRED	0559
	RIQ	DOUG	2255	i	TEB	CHRIS	1675	1	UYK	JOSEPH	1324		WJO	PETER	1846
	RJV RK	GEORGE	0428		TFK	LES	1641		UYP	ROGER	2849	1	WKG	ROB	0079
G0	RKT	ROD D AVID	1804 1066		TFV TGF	TERY	1177		UYP	ROGER	2840	•	WKJ	CHRIS	2239
ON6		GUIDO	1080	1	TGU	JIM BILL	1621 1329	,	UZH UZQ	STEPHEN PETER	1829 1691		WLC	BRIAN	2205 2208
G0	RLW	ALAN	0902		THA	PETE	1174		VAO	DENNIS	2819		WLX WMC	ALAN PETER	2279
IK2	RMZ	MARTIN	0853		THV	JOHN	1374		VAT	TONY	1895		WMR		E GP 1873
G0	ROT	MIKE	1056		THX	VIC	1634	1	VAW	BRIAN	0420		WMW	DOUG	2813
OK1		PETR	2833	G0	TIP	GEORGE	0940	G4	VBB	GRAHAM	2267		WNA	TONY	0598
G4	RQA	TOM	0036		TKT	PETER	1126	1	VBH	\mathtt{BILL}	2252	GW0	WNB	SID	1892
ZS5		ROSE	1803		TKX	ARTHUR	1668	1	VBT	HOWARD	1682		MNI	BILL	0413
G0 G0	RRF RSA	PETER JOHN	2836 2244	,	TLF TMX	FRED	1853	I .	VCQ	JIM	2299		WNW	BOB	2800
	RSF	ALAN	1877			TERRY NORMAN	1862 1653		VCW	RICHARD PHILIP	18 4 2 2277		WP WPK	JACK BOB	0310 1870
G4	RSK	GORDON	0030		TNY	TONY	1669		VD	BERNARD	1617		WPM	NICK	1886
G0	RSN	RICHARD	0869	1	TOW	KEITH	0898	DL1		KLAUS	2823	VK3		MARLENE	1359
G3	RSP	ALAN	1847	G0	TRO	NESS	1323	G0	VDI	JOHN	1840		WRR	JOHN	2276
	RSU	GEOFF	1150		TRU	HARRY	2233		\mathbf{VDL}	JOHN	0549	G0	WSL	JOHN	2295
G7	RTI	KLAUS	1325		TTH	TEX	0995		VEB	BROOK	0952	ZS1		WILF	1694
	RTN	GERARD	2234		TUA	GEORGE (VE			VFF	STEPHEN	1872	ZS1		WILF	1694
	RVO RVW	DAVID STEVE	1102 1850		TUE TUJ	RAYMOND WALT	1191 1139		VFM VFV	TONY BOB	1808 1 684		WTD	DIETER	1068
	RWP	EDI	0286		TUX	CHRIS	1307		VGF	DAVE	1852	1	WIO	COLIN ELAINE	1841 2259
	RWQ	NIGEL	1619	1	TVI	ROD	0747	1	VGR	PETER	2289		WUY	ALEX	2834
GW3		CHAS	0345	•	TWN	DAVID	1334	1	VGV	ANDY	1654	ŀ	WW	PAUL	1345
G0	SBH	TED	1655		TZV	GORDON	1392	G4	ИIJ	${f BILL}$	0807	G4	WWQ	DAVE	1056
G 0	SDA	COLIN	1172	•	TZW	JOHN	1332	1	VIT	BILL	1665		WWT	JOHN	1114
	SDO	DAVE	2861		TZZ	ANTHEA	2298	1	VIY	JON	1631		WWT	PETER	1891
F5	SED SEE	GEORGE JACK	1867 2237		UBE UCJ	JOHN	0934 2860	4	VIZ	NICOLA	1659		WYV	ALEX	1813
G0	SEF	DAVE	1129	ŀ	UCK	SEAN BARRY	1344	1	VJJ VJK	STAN MIKE	1824 16 4 7	OZ9	XAE	KNUD MIKE	2246 2293
GW0	SFO	KAY	1105		UCQ	PHIL	1319		VKL	ROD	1864	1	XAH	DAVID '	2222
G0		DAVE	1161		UDX	WOLF	1181	1	VL.	IAIN	0890		XCF	COLIN	2296
GW0	SGG	BILL	1602	ON5	UE	DANNY	1825	G0	VLC	ANDREW	2251	GI4	XFS	LYN	0464
. G0		CLIFF	1391		UER	CYRIL	2232		VLU	EDDIE	2213		XHE	RICHARD	1365
G3	SJE	JOHN	0391		UEW	DAVE	0584		ALA	PHIL	1865		XHL	NOEL	1354
G0 GM3		SAM DENIS	1 18 5 2817		UFF UFT	ROY	1382 1650	4	VLY	PHIL	1865 2257		XHZ	FRANK	0008
	SKR	JOHN	1115		UGB	KEV RICHARD	2830		VMI VMV	BRIAN	0402		XJU XMM	LAURIE TOM	0153 1395
G0	SLJ	DENIS	1838		UGZ	LEN	1353		VNG	DAVE	1097		XOC	PETER	1645
GM0	SMT	ALLAN	1610	1	UHJ	BILL	1868		VOJ	ART	0007		XPE	MIKE	0100
GM4	SMZ	DAVID	2256	JA7	UHM	MASA	0018	G5	VQ	ERIC	1679	GW4	ХQН	JOHN	0576
G0	SNE	ANNE	1123		UHM	STEVE	0304		VQA	JULIAN	2207		XUZ	RAY	0777
	500	HAROLD	0767		UIP	-??	1878		VQO	LES	0874		XV	RON	0871
	SPK	ROBERT STEVE	1623 1399		UIW UJD	TONY MERV	2868 1 68 0		VRP VS	VICTOR GEORGE	1110 0267	YU1		JOHN BEN	0342 2241
	SQD	TOM	2845		UKX	RAY	1618		VSS	RAY	1812		XWV	MAT	1660
	SQF	JOE	1384		UKZ	RAY	0148		VTI	TERRY	1807	Ł	XZM	DES	2806
	SRQ	GEORGE	0662		ULB	DON	1649		VTN	RON	1851		YEP	TED	0020
	SSA	KEITH	1304		ULT	LES	0675		VUN	GLORIA	1620	•	YFD	FRANK	0486
	SSG	REG	1169		UMN	JOHN	1678			BERNARD	0838		YJB	RON	0601
	SSH	ROY	0999		UMT	DEN	1861	ı.	VXY	DAVID	1099 28 4 4		YLB YLL	JIM	0492 0282
	STE	STEVE BILL	1875 1609	1	UOM UOP	NORMAN JOE	1369 1863	1	VYR VYX	NORMAN PETER	2214		YLT	RON TOM	0489
	STS	RONNIE	1661		UPS	PAUL	1651		VYY	BRIAN	0900		YMB	MALCOLM	0681
	SVX	IAN	2223		UPU	ROGER	1643		VZG	WILLIAM/K1			YNU	JOHN	0073
G0	SWT	LEN	1642	G0	UQE	BERT	1815		VZV	DAVE	2286	G3	YRP	IAN	2825
G0	SWU	PETE	1389		UQP	GRANT	1383		WAO	PETER	2215		YRS	GERRY	1326
	SXE	JOHN	1101		URM	PETER	1632	1	WAS	ALAN	2828		YSX	STEWART	2872
	SXG	KEITH	1138		URS	FRED	1328		WAU	JILL	1690		YXJ	DANNY	1305
	SXZ SZB	JIM CHRISTINE	1339 1301		URX USC	DAVID JOHN	1351 1387		WAY WBN	BOB TREV	2292 0381		YYW	DAVE JOHN	1600 2863
BV2		TONY	1884		USW	BILL	0405		WBT	JEAN	2855		ZDD	DEREK	1312
	TAW	IAN	1300		UTL	ALAN	1393		WES	WES	2231	нв9		FRANK	2859
	TBB	BOB	1135		UTR	DAVID	1629		WFM	PETER	1880		ZFT	MARY	1162
G0	TBD	TERRY	1163			WARWICK	1683			NOLLY		LA6		RUTH	1314
IK5	TBK	STEVE	22 4 7	G4	UUV	PETER	0376	G0	WHP	JOHN	1898	G4	ZIB	TONY	0811

FISTS CW CLUB M

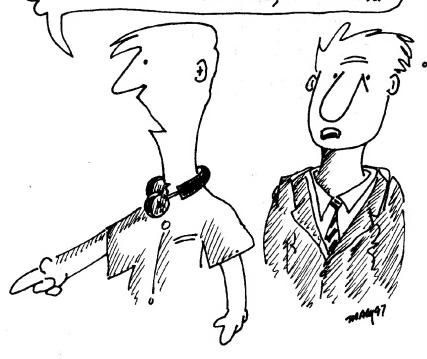
Membership Roster 7/2/9

G3	ZQ ZQS	HANS GEO	0313 0001
G3	ZRZ	IAN	0781
GM4 G4	ZTO ZVL	JOHN HENRY	0695 0538
G4	ZV R	TONY	0666
G3	ZWF	JOHN	1896

SWL's	, Other Mi	sc.
Brian	SWL	0440
	SWL	1814
	SWL	1818
Di	SWL	1882
Brendan	SWL	2253
Ron	SWL	2290
James	No call	2787
Doug	No call	3035
Linea (YF	of VY2RB)	3036

By Agric Macy Krus

AND RIGHT NEXT TO THAT BIG PILE OF MAGAZINES IS MY HF RADIO, AND UNDER THOSE PAPERS IS MY 2M, FM AND MY CODE KEY IS ... WELL IT'S HERE GOMEWHERE, I THINK ...



RULE NO. 1, IF YOU'RE GONNA SHOW SOMEONE.
YOUR SHACK, MAKE SURE IT'S READY TO BE SEEN ...

FISTS CW CLUB, P.O. Box 47 Hadley MI 48440-0047 Have you checked your mailing label lately??
Your renewal due date is on the upper right corner of the mailing label.

Hadley MI 48440

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